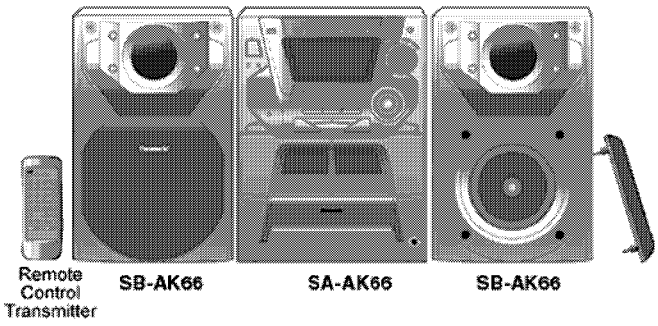
ORDER NO. MD0102038C1
A6

# Service Manual

## CD Stereo System

COMPACT disc DIGITAL AUDIO




# SA-AK66

Colour
(S)... Silver Type

Area
(P)... U.S.A.
(PC)... Canada

TAPE SECTION :
SG-2W MECHANISM SERIES
CD SECTION :
RAE0152Z-3 TRAVERSE DECK SERIES

## Specifications

**■ AMPLIFIER SECTION**

| | |
|---|---|
| Power output | |
| THD 10% Total harmonic distortion | |
| (Front 1 kHz) | 70 W per channel (6 Ω) |
| (Center 1 kHz) | 70 W per channel (8 Ω) |
| (Surround 1 kHz) | 35 W per channel (8 Ω) |
| Total output in stereo mode | 140 W |
| Total output in Dolby Pro Logic mode | 280 W |
| FTC Power output | |
| THD 10% Total harmonic distortion | |
| (Front 70-16 kHz) | 60 W per channel (6 Ω) |
| (Center 70-16 kHz) | 70 W per channel (8 Ω) |
| (Surround 70-16 kHz) | 35 W per channel (8 Ω) |
| Total output in stereo mode | 120 W |
| Total output in Dolby Pro Logic mode | 260 W |
| Input sensitivity | |
| AUX | 250 mV |
| Input Impedance | |
| AUX | 13 kΩ |

**■ FM TUNER SECTION**

| | |
|---|---|
| Frequency range | 87.9 - 107.9 MHz (200 kHz steps) |
| | 87.5 - 108.0 MHz (100 kHz steps) |
| Sensitivity | 2.5 µV (IHF) |
| S/N 26 dB | 2.2 µV |
| Antenna terminal(s) | 75 Ω (unbalanced) |

**■ AM TUNER SECTION**

| | |
|---|---|
| Frequency range | 520 - 1710 kHz (10 kHz steps) |
| Sensitivity | |
| S/N 20 dB (at 1000 kHz) | 560 µV/m |

**■ CASSETTE DECK SECTION**

| | |
|---|---|
| Track system | 4 track, 2 channel |
| Heads | |
| Record/playback | Solid permalloy head |
| Erasure | Double gap ferrite head |
| Motor | DC servo motor |
| Recording system | AC bias 100 kHz |
| Erasing system | AC erase 100 kHz |
| Tape speed | 4.8 cm/s |
| Frequency response (+3 dB, -6 dB at DECK OUT) | |
| NORMAL (TYPE I) | 35 Hz - 14 kHz |
| S/N | 50 dB (A weighted) |
| Wow and flutter | 0.18 % (WRMS) |
| Fast forward and rewind time | Approx. 120 seconds with C-60 cassette tape |

**■ CD SECTION**

| | |
|---|---|
| Sampling frequency | 44.1 kHz |
| Decoding | 16 bit linear |

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| | |
|---|---|
| Beam source/wave length | Semiconductor laser/780 nm |
| Number of channels | Stereo |
| Frequency response | 20 Hz - 20 kHz (+1, -2 dB) |
| Wow and flutter | Below measurable limit |
| Digital filter | 8 fs |
| D/A converter | MASH (1 bit DAC) |

**■ GENERAL**

| | |
|---|---|
| Power supply | AC 120 V, 60Hz |
| Power consumption | 230 W |
| Power consumption in standby mode | 0.29 W |
| Dimensions (W x H x D) | 250 X 332 X 319 mm<br>9 27/32" x 13 1/16" x 12 9/16" |
| Mass | (8.3 kg) 18.3 lb |

**■ SYSTEM**

| | |
|---|---|
| SC-AK66(P) | Music Center: SA-AK66(P) |
| | Front Speaker: SB-AK66(P) |
| | Center & Surround Speaker: SB-PT70A (P) |
| SC-AK66(PC) | Music Center: SA-AK66(PC) |
| | Front Speaker: SB-AK66(P) |
| | Center & Surround Speaker: SB-PT70A (P) |

**Notes:**

1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# 1 Safety Precaution

(This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

## 1.1. Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc.
   Equipment with antenna terminals should read between 3 MΩ and 5.2 MΩ to all exposed parts*.(Fig.1)
   Equipment without antenna terminals should read approximately infinity to all exposed parts.(Fig.2)
   *Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

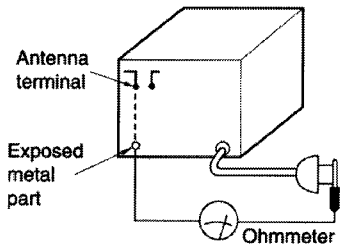


Fig. 1
Resistance = 3MΩ – 5.2MΩ

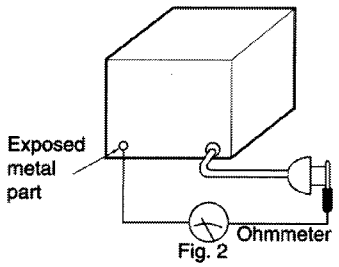


Fig. 2
Resistance = Approx ∞

# 2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C571~C574, C579 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 120V, 60 Hz in NO SIGNAL mode should be ~600mA.

# 3 Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

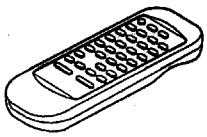
- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

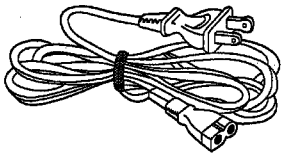
**Note :**
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

# 4 Accessories

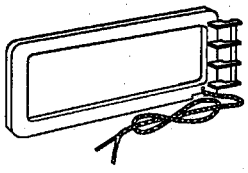


Remote Control
Transmitter

FM indoor antenna



AC mains lead



AM Loop antenna

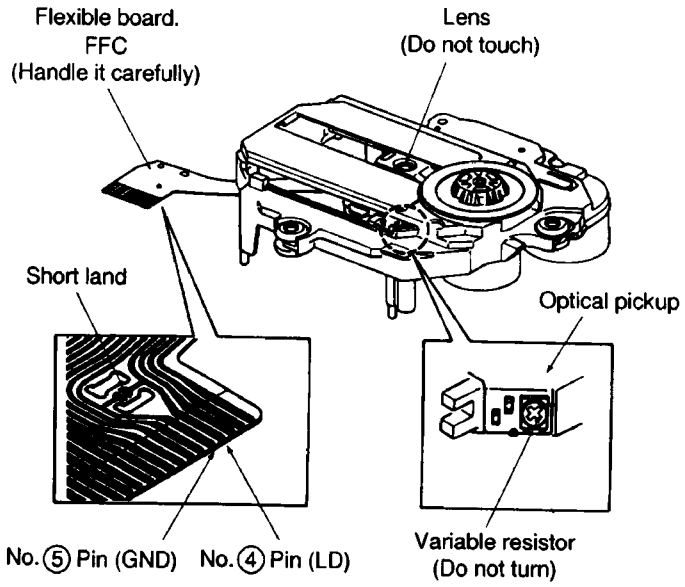
# 5 Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

**· Handling of traverse deck (optical pickup)**

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode.To connect to the PC board, be sure to open by removing the solder build-up, and finish the work quickly.
3. Take care not to apply excessive stress to the flexible board (FFC).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.




**· Grounding for electrostatic breakdown prevention**

1. Human body grounding

   Use the anti-static wrist strap to discharge the static electricity from your body.

2. Work table grounding

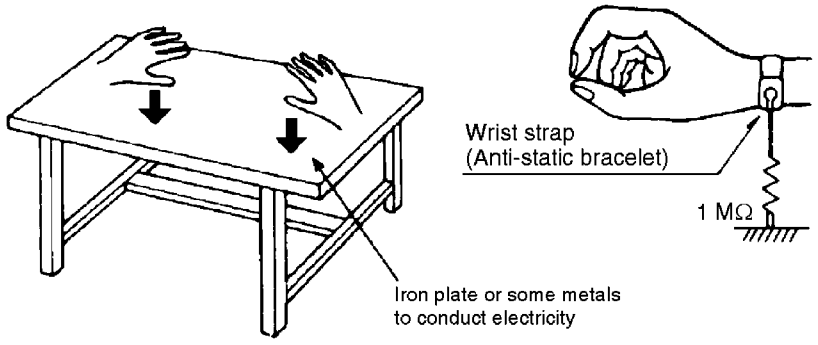
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

**Caution :**

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

**Caution when Replacing the Traverse Deck :**

The traverse deck has a short point shorted with solder to protect the laer diode against electroststics breakdown. Be sure to remove the solder from the short point before making connections.



# 6 Precaution of Laser Diode

**CAUTION:**

This unit utilizes a class 1 laser.

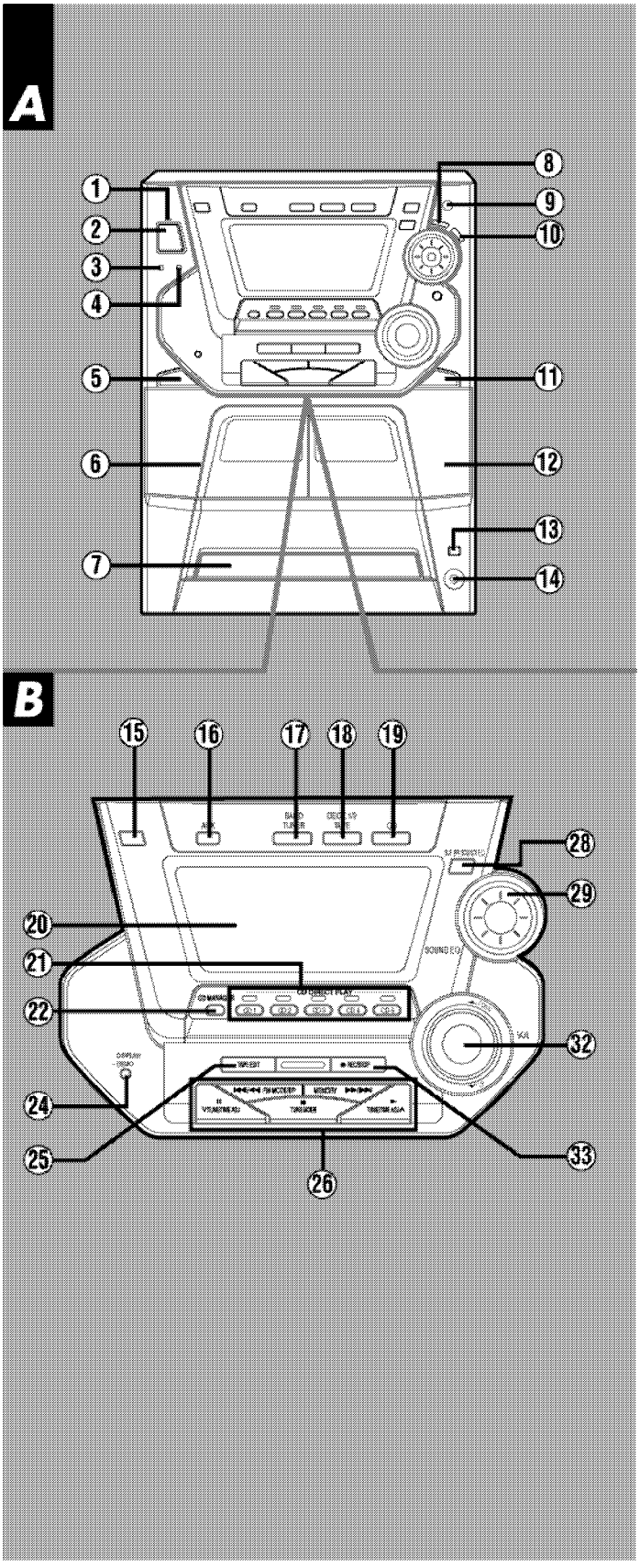
Invisible laser radiation is emitted from the optical pickup lens.

When the unit is turned on:

1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**CAUTION!**
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

# 7 Operation Procedures



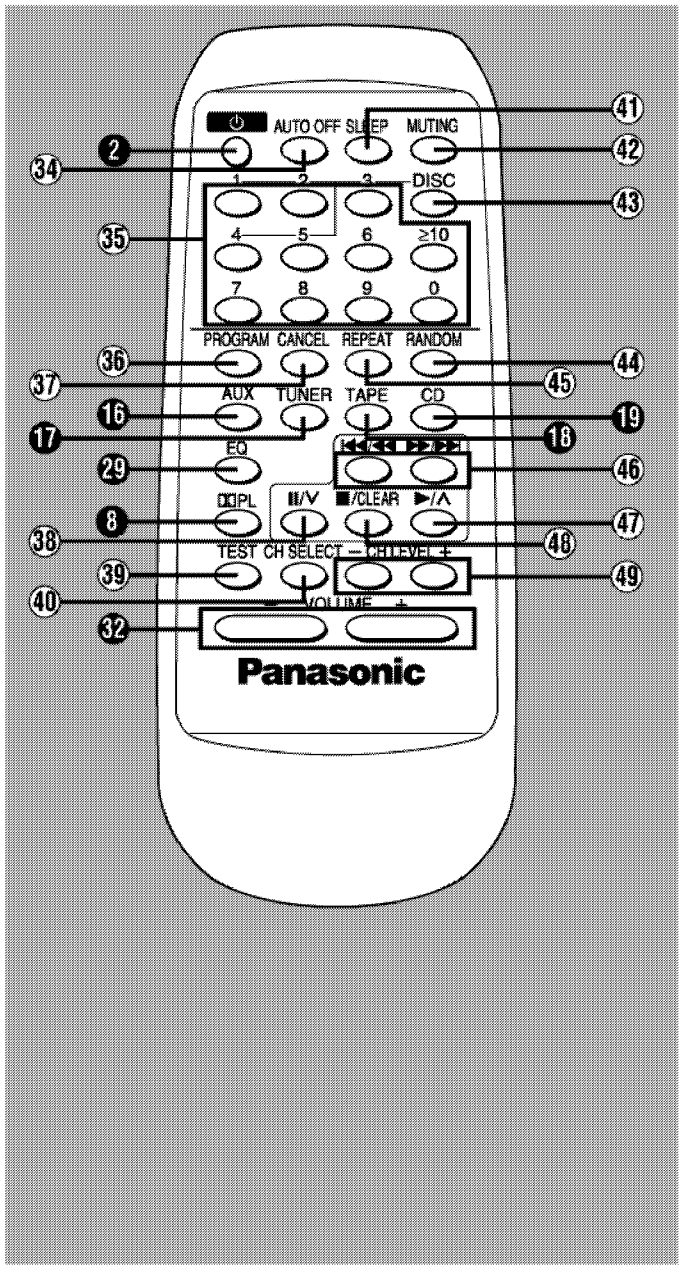

## Front panel controls

### A Main unit

| No. | Name |
|---|---|
| ① | **AC supply indicator (AC IN)**<br>This indicator lights when the unit is connected to the AC power supply. |
| ② | **Standby/on switch (⏻/I, POWER)**<br>Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power. |
| ③ | **Play timer/record timer button (⏲PLAY/⏲REC)** |
| ④ | **Clock/timer button (CLOCK/TIMER)** |
| ⑤ | **Deck 1 open button (⏏ DECK 1 OPEN)** |
| ⑥ | **Deck 1 cassette holder** |
| ⑦ | **Disc tray** |
| ⑧ | **DOLBY PRO LOGIC on/off button (DD PL)** |
| ⑨ | **6-channel input button (6CH INPUT)** |
| ⑩ | **Surround on/off button (SURROUND)** |
| ⑪ | **Deck 2 open button (⏏ DECK 2 OPEN)** |
| ⑫ | **Deck 2 cassette holder** |
| ⑬ | **CD open/close button (⏏ OPEN/CLOSE)** |
| ⑭ | **Headphone jack (PHONES)** |

### B Center console

| | |
|---|---|
| ⑮ | **Remote control signal sensor** |
| ⑯ | **AUX button (AUX)** |
| ⑰ | **Tuner/band select button (TUNER, BAND)** |
| ⑱ | **Tape/deck select button (TAPE, DECK 1/2)** |
| ⑲ | **CD button (CD)** |
| ⑳ | **Display** |
| ㉑ | **Disc direct play buttons and indicators (CD 1 ~ CD 5)** |
| ㉒ | **CD manager button (CD MANAGER)** |
| ㉔ | **Display select/demonstration button (-DISPLAY/–DEMO)** |
| ㉕ | **Tape edit button (TAPE EDIT)** |
| ㉖ | **Basic operating buttons**<br>Functions change according to the source. |
| ㉘ | **Super sound EQ button (SUPER SOUND EQ)** |
| ㉙ | **Jog control (SOUND EQ)** |
| ㉜ | **Volume control (VOL)** |
| ㉝ | **Recording start/stop button (● REC/STOP)** |




## Front panel controls

### Remote control

Buttons such as ❷ functions in exactly the same way as the buttons on the main unit.

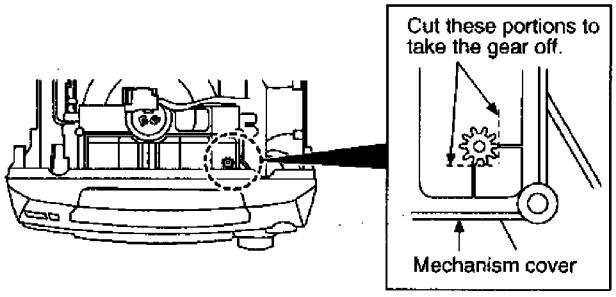
| No. | Name |
|---|---|
| ❷ | Standby/on button (⏻) |
| ㉞ | Auto off button (AUTO OFF) |
| ㉟ | Numeric buttons (≥10, 1–9, 0) |
| ㊱ | Program button (PROGRAM) |
| ㊲ | Cancel button (CANCEL) |
| ⓰ | AUX button (AUX) |
| ⓱ | Tuner/band select button (TUNER) |
| ㉙ | EQ select button (EQ) |
| ❽ | DOLBY PRO LOGIC on/off button (□□ PL) |
| ㊳ | Pause/preset channel select button (⏸/∨) |
| ㊴ | Test signal output button (TEST) |
| ㊵ | Channel select button (CH SELECT) |
| ㉜ | Volume buttons (– VOLUME +) |
| ㊶ | Sleep button (SLEEP) |
| ㊷ | Muting button (MUTING) |
| ㊸ | Disc button (DISC) |
| ㊹ | Random button (RANDOM) |
| ㊺ | Repeat button (REPEAT) |
| ⓳ | CD button (CD) |
| ⓲ | Tape/deck select button (TAPE) |
| ㊻ | Skip/search buttons (⏮/◀◀, ▶▶/⏭) |
| ㊼ | Play/preset channel select button (▶/∧) |
| ㊽ | Stop/program clear button (■/CLEAR) |
| ㊾ | Channel level select buttons (– CH LEVEL +) |

# 8 Operation Checks and Main Component Replacement Procedures

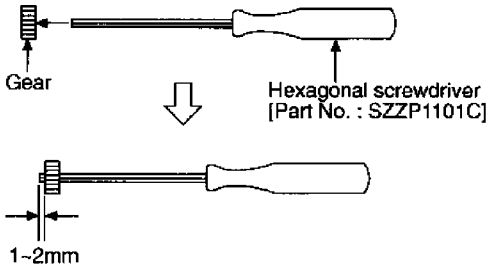
**Gear for servicing (jig) information**

1. This unit has a gear which is used for checking items (Open/close of disc tray, up/down operation of traverse unit by manually) when servicing.
2. For preparation of gear (for servicing), Perform the procedures as follows.
3. In case of re-servicing the same set, the "gear for servicing" may has been taken off because it has been used. The "gear for servicing" must be stored.

1. Remove the gear provided with mechanism cover as shown below.




2. Insert the hexagonal screwdriver (2mm) into the gear, and then project the tip of screwdriver for 1~2mm in length.




**"ATTENTION SERVICER"**

Some chassis components may have sharp edges.

Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**

   **Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

**Contents**

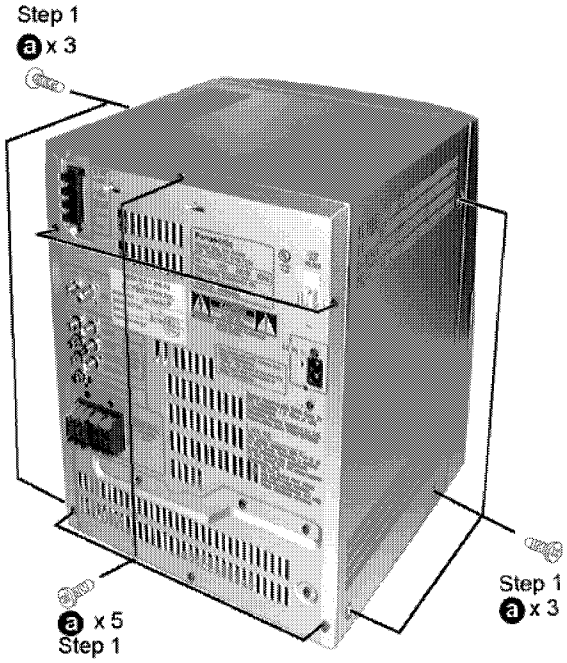

- **Checking Procedure For Each Major P.C.B.**
  1. Checking of the Main, Panel, Deck and Power P.C.B.
- **Main Component Replacement Procedures**
  1. Replacement of the Traverse Deck.
  2. Replacement of the Power Amplifier IC.
- **Disassembly and assembly of the Traverse Unit**
- **Disassembly and assembly of the Disc Tray**


**Warning:**

This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

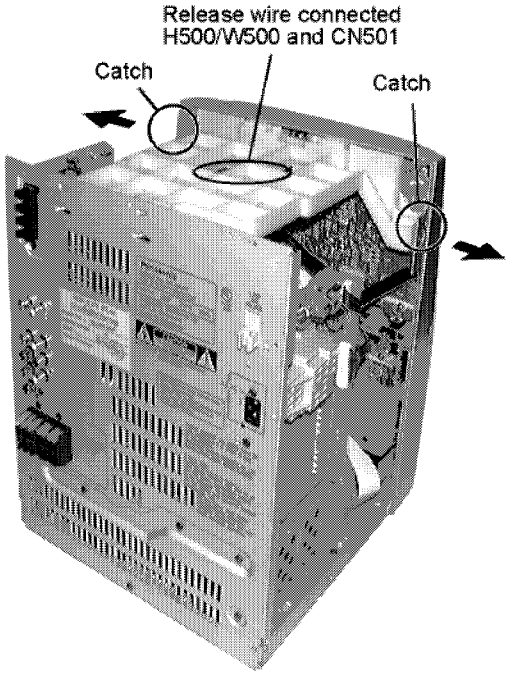
# 8.1. Checking Procedure For Each Major P.C.B.

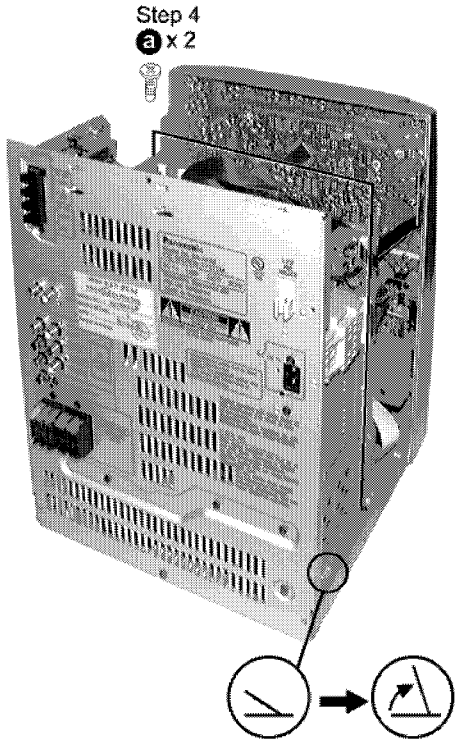
## 8.1.1. Checking of the Main, Transformer, Panel and Deck P.C.B.



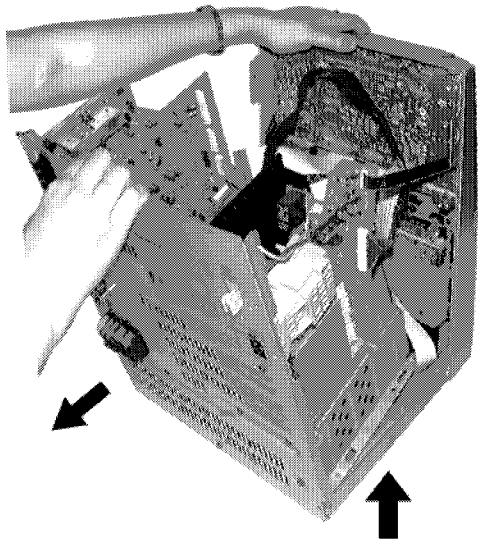

**Step 2** Remove the top cabinet.

**Step 3** Remove the T-bracket.

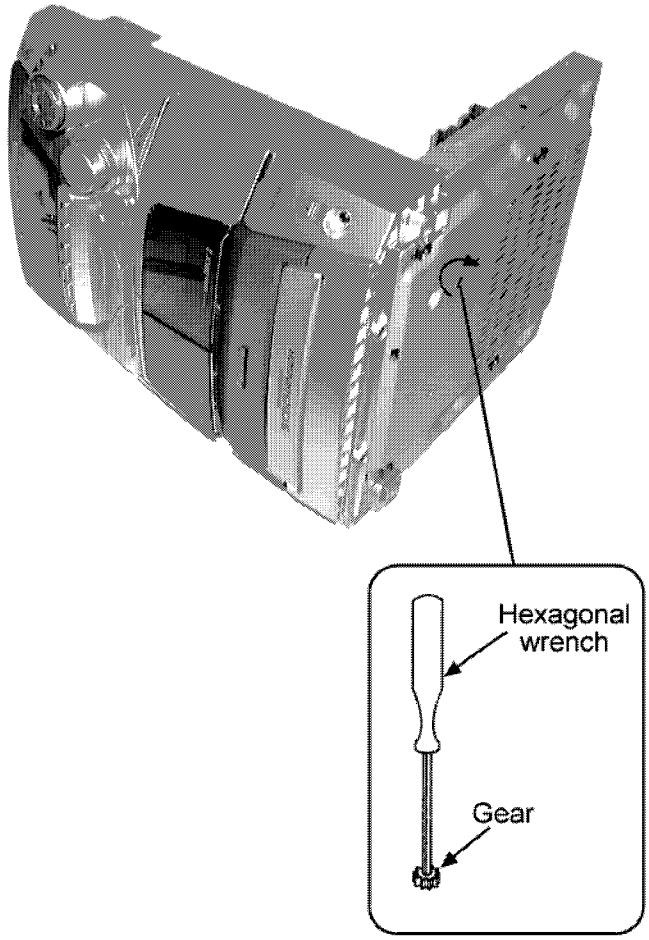


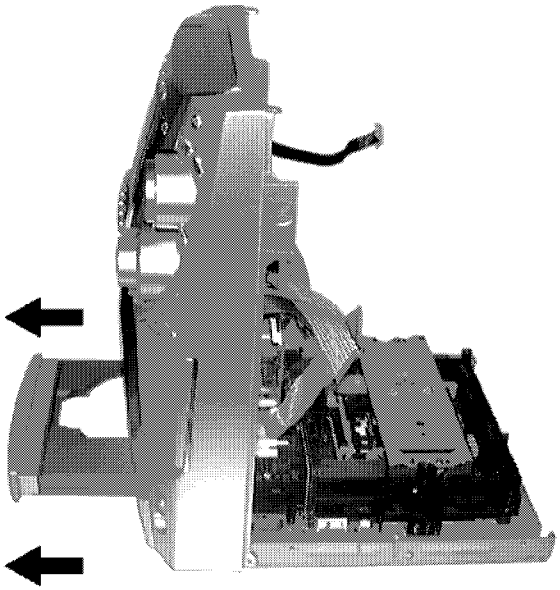

**Step 5** Turn locating pin on both sides 90°. (Locating pin need not to be bent back.)



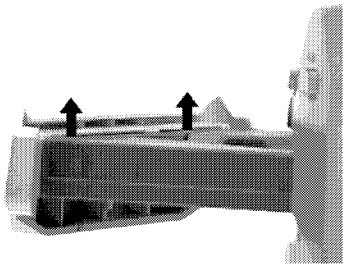
**Step 6** Release the wires CN302, CN303, CN304, CN309 and CN502. Remove rear panel by pulling it backward and lift the rear panel assembly.



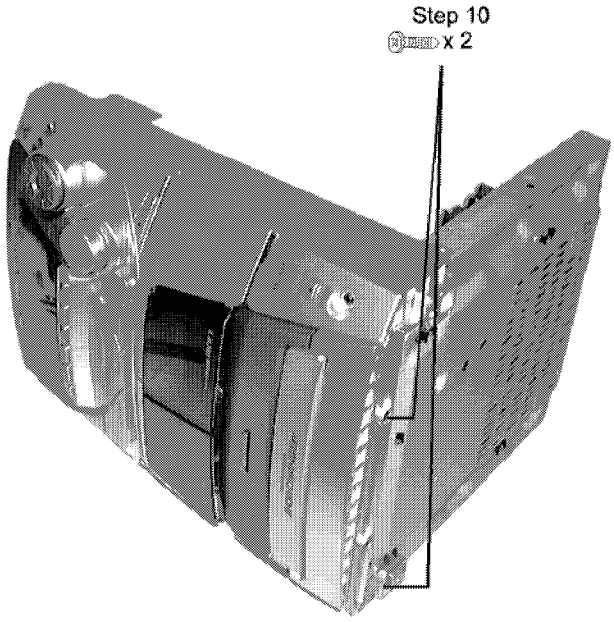

**Step 7** Use a hexagonal wrench and turn clockwise to release the tray.

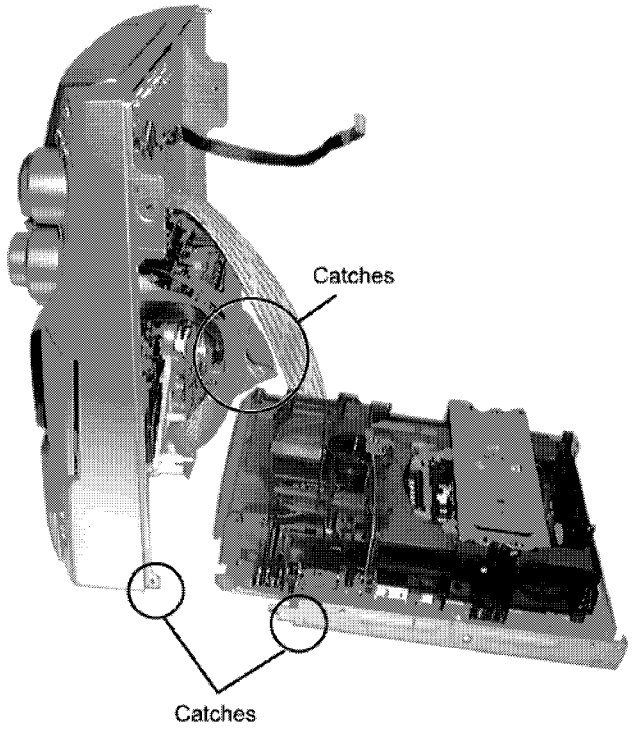


**Step 8** Pull the CD tray in the direction shown above.

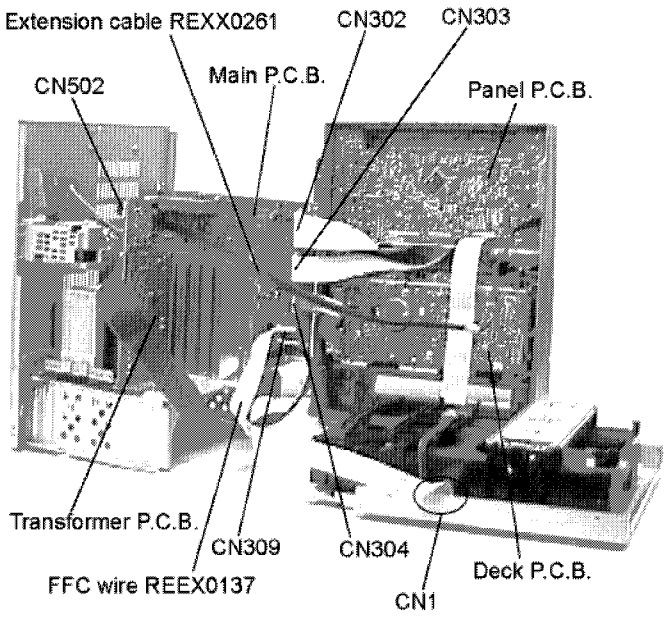


**Step 9** Remove the CD lid in the direction of the arrow.




Step 11 Release the two catches shown above to remove the front cabinet from the CD traverse unit.

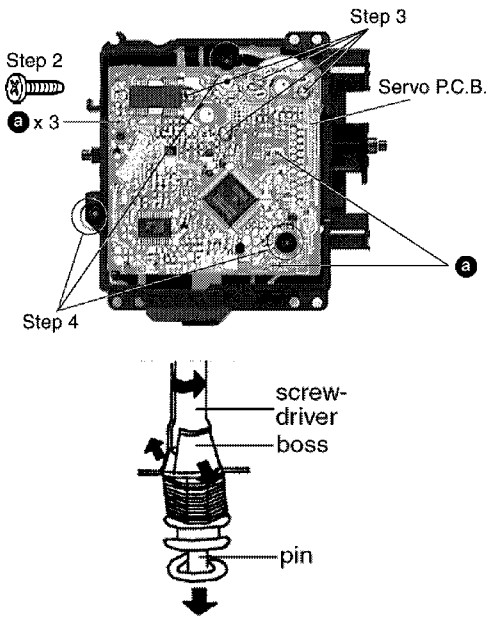



**Step 12** Connect back the wire to CN302, CN303 and CN304. Use the extension wire (REXX0261) to connect to CN502. Use a FFC wire (REEX0137) to connect CN1 to CN309.

## 8.2. Main Component Replacement Procedures

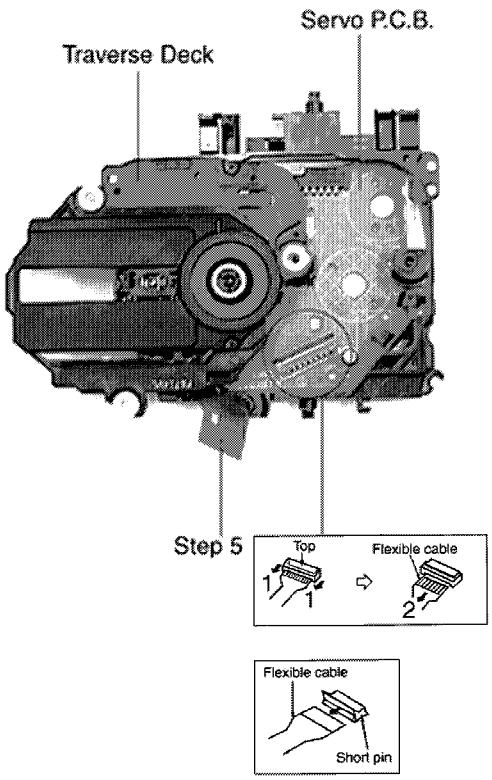
**1. Replacement of the Traverse Deck**

**Step 1** Follow the procedures in 'Disassembly of the Traverse Unit' ( Step 1 - Step 4 )




**Step 3** Desolder the 4 legs of the 2 motors and pull out the Servo P.C.B.

**Step 4** Widen the 3 bosses with a flat screwdriver and pull out the 3 pins. Then remove the Traverse Deck.




**Step 5** Remove the flexible cable CN 701.

- Removal of the flexible cable. Push the top of the connector in the direction of the arrow 1, and then pull out the flexible cable in the direction of the arrow 2.

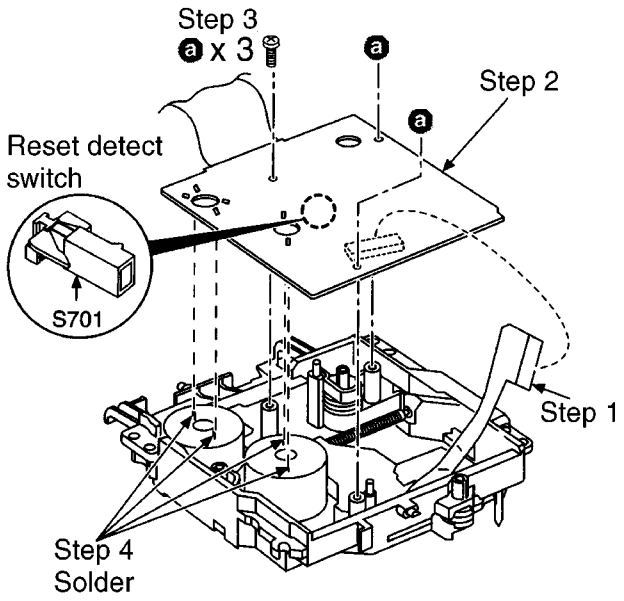
**Note:**

Insert a short pin into the flexible cable for traverse unit.

**· Installation of the CD servo P.C.B. after replacement**

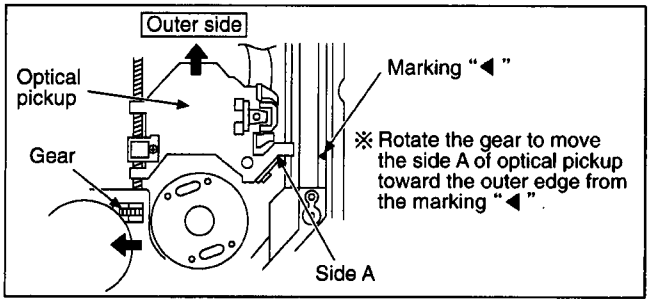
**Step 1** Connect the FFC board.

**Step 2** Install the CD servo P.C.B. in the traverse deck assembly.



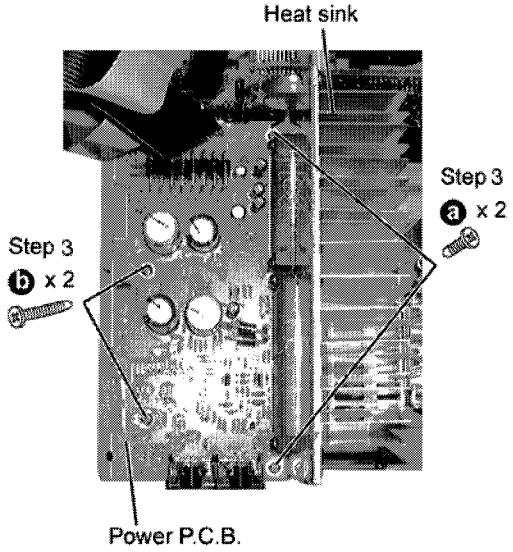

**Note:**

Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle). [Otherwise, the reset detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]


Outer side
Optical pickup
Gear
Marking "◀"
※ Rotate the gear to move the side A of optical pickup toward the outer edge from the marking "◀".
Side A

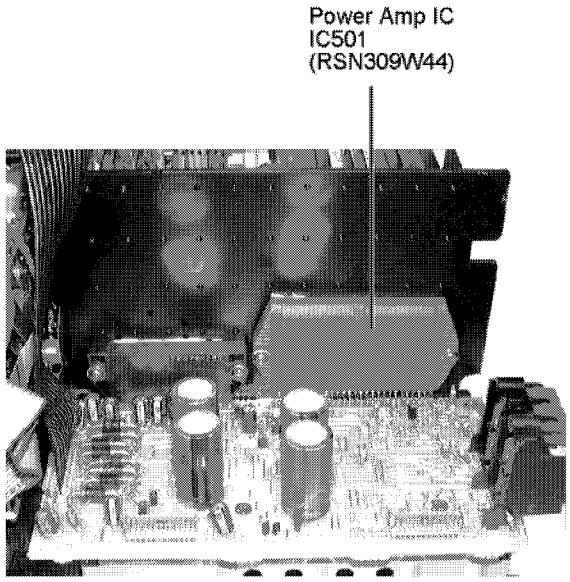
**2. Replacement of the Power Amplifier IC**

**Step 1** Follow the procedures in 'Checking Procedure for each major P.C.B.' ( Step 1 - Step 4 ).

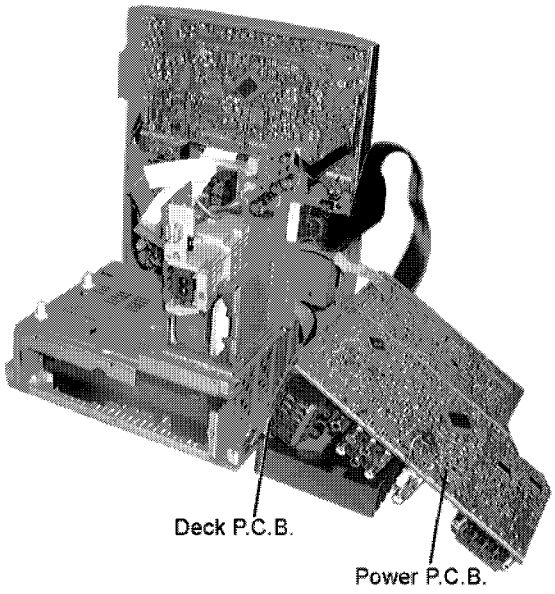



**Step 2** Remove the wires at CN302, CN303 and CN304 and pull out the Main P.C.B.

**Step 3** Remove 4 screws fixed to the Power Amplifier IC.




**Step 4** Unsolder the terminals of Power Amp IC and replace the respective component.

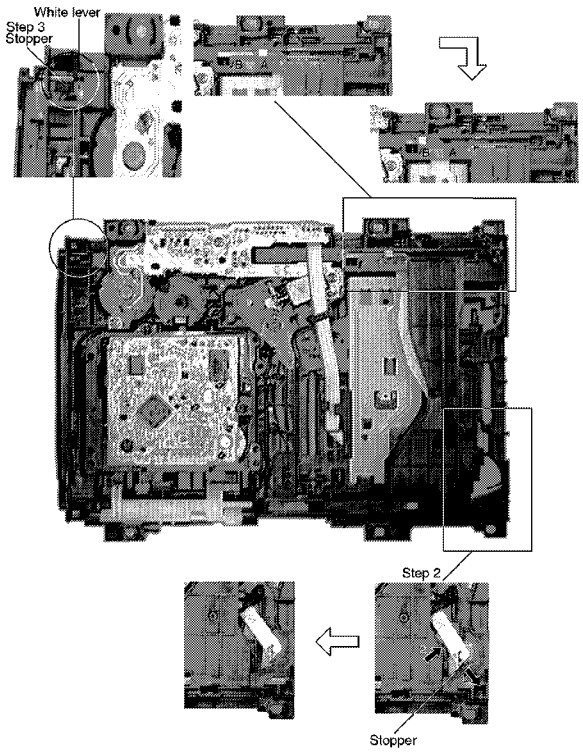


# 8.3. Disassembly and assembly of the Traverse Unit

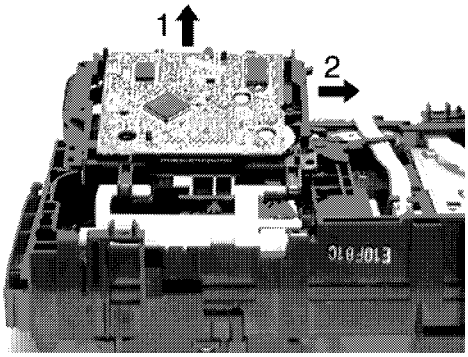
**Step 1** Push the lever from position A to B.

**Step 2** Pull the stopper (black) in the direction of arrow 1 and push the lever in the direction of arrow 2.

**Step 3** Push the stpeer (black) down until the white lever eject out.



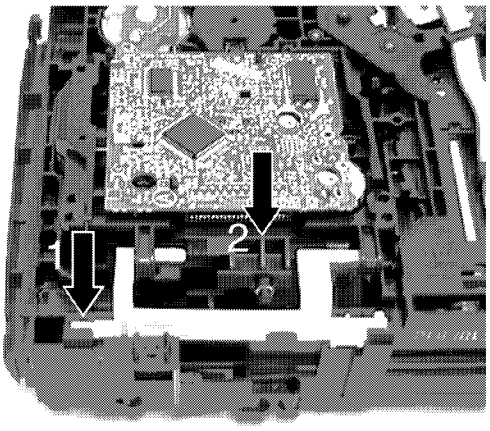

**Step 4** Lift up the traverse unit and slide out the unit as shown.



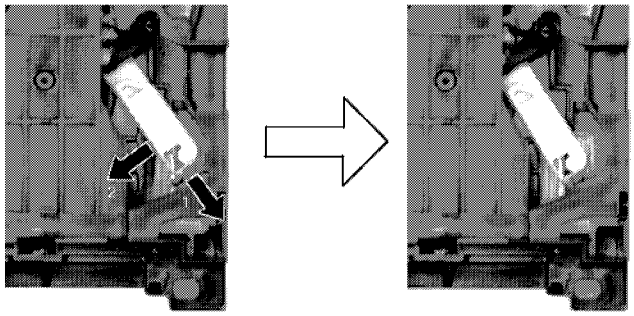

**· Replacement of Traverse Unit**

**Step 1** Place the traverse unit as shown.

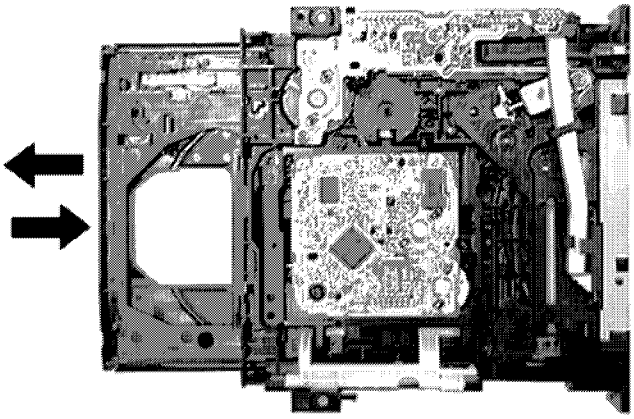
**Step 2** Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.



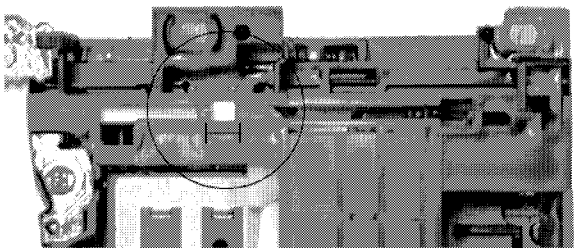

**Step 3** Pull the stopper in the direction of arrow 1 and release the lever in the direction of arrow 2 as shown.



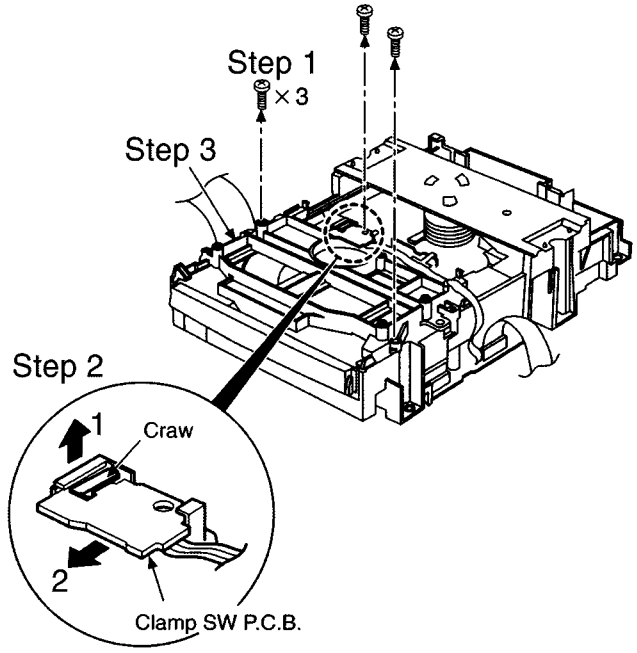
**Step 4** Pull out the tray half way and push it back fully.



**Step 5** Push the lever to the initial position indicated 'I---I'.

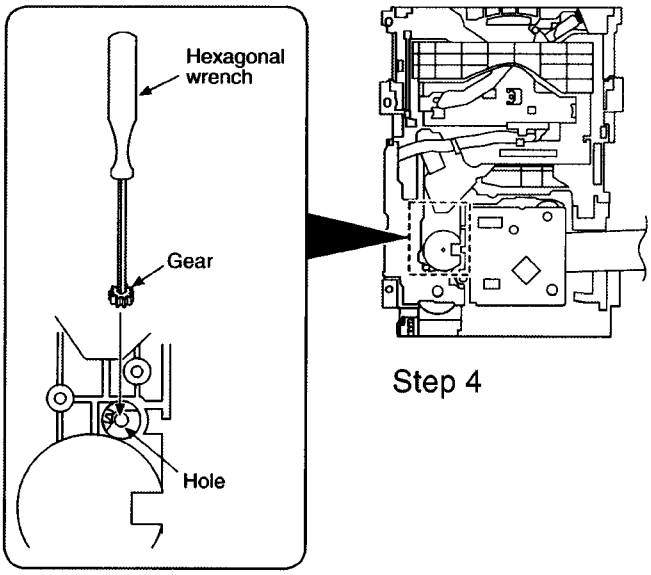


# 8.4. Disassembly and assembly of the Disc Tray

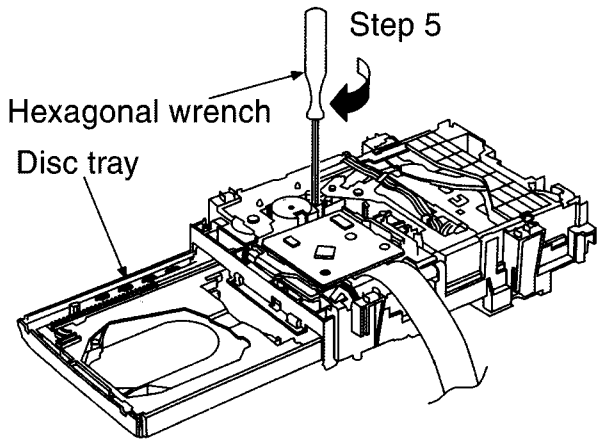



**Step 2** With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.

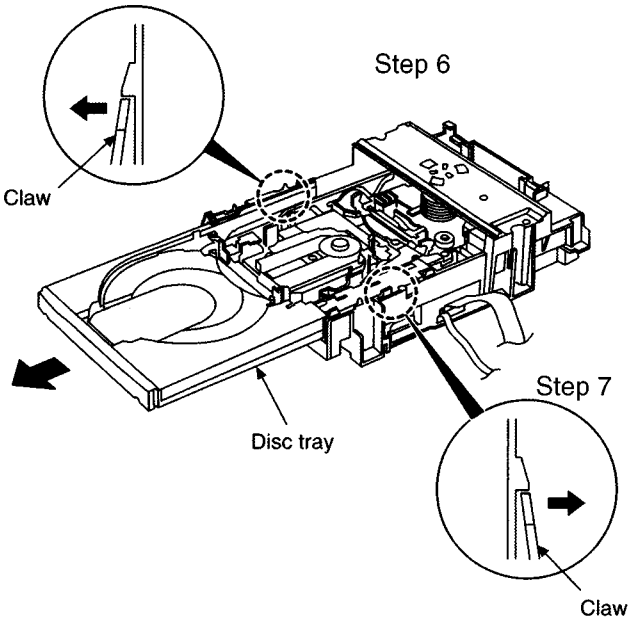
**Step 3** Remove the mechanism cover.




**Step 4** Insert the gear with hexagonal wrench into the hole.

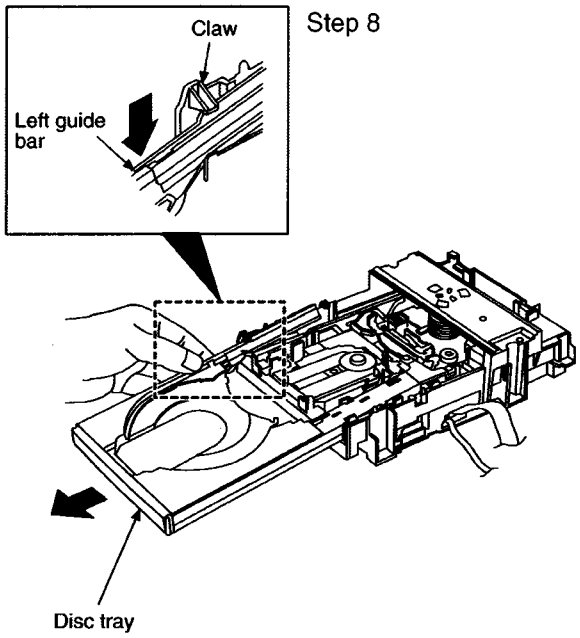



**Step 5** Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.



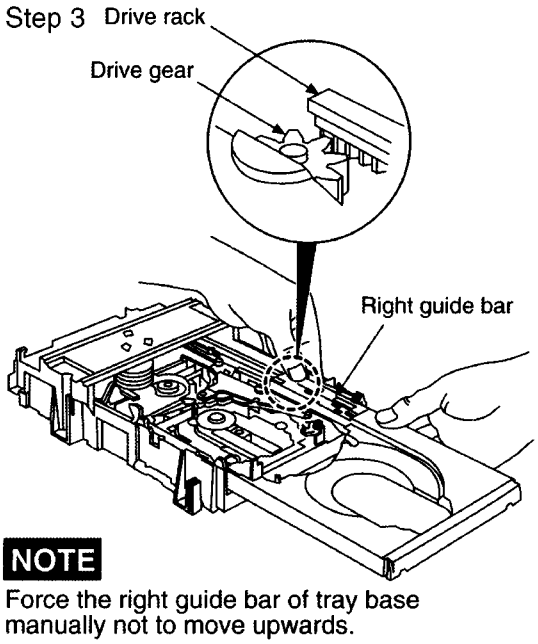

**Step 6** Upset the CD changer unit again.

**Step 7** Release both the claws, and then draw the disc tray.




**Step 8** With forcing the left guide bar manually because the left guide bar interfers with claw, draw the disc tray.

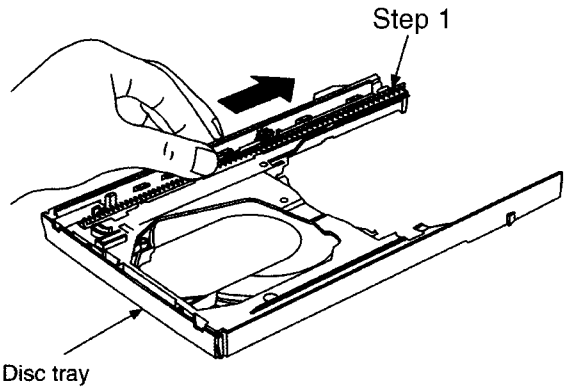
**· Installation of the disc tray after replacement**



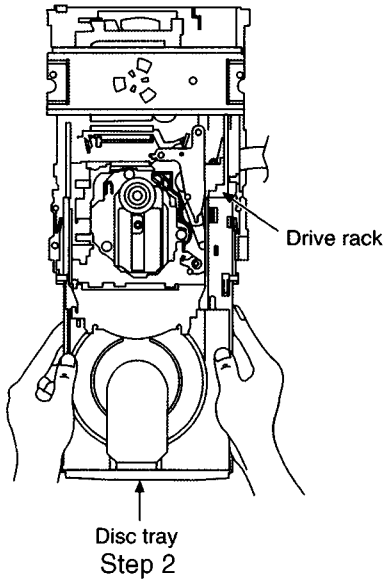

**NOTE**

Force the right guide bar of tray base manually not to move upwards.

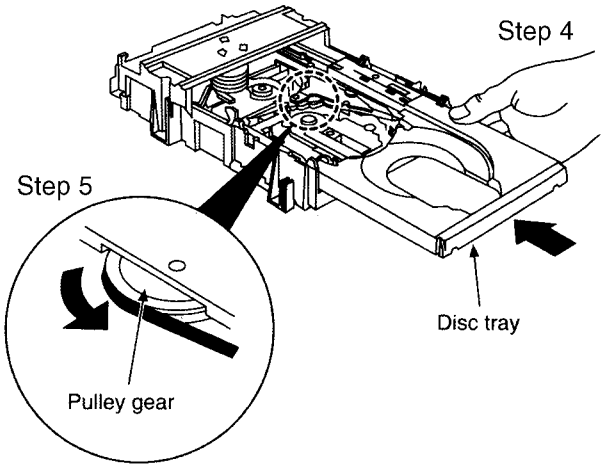
**Step 3** Align the drive rack with the driver gear.




**Step 1** Slide the drive rack fully in the direction of arrow.




**Step 2** Holding the drive rack not to move, install the disc tray.




**Step 4** Holding the disc tray manually, rotate the pulley gear in the direction of arrow.

**Step 5** Rotate the gear 5 or 6 times manually, and then push the disc tray.

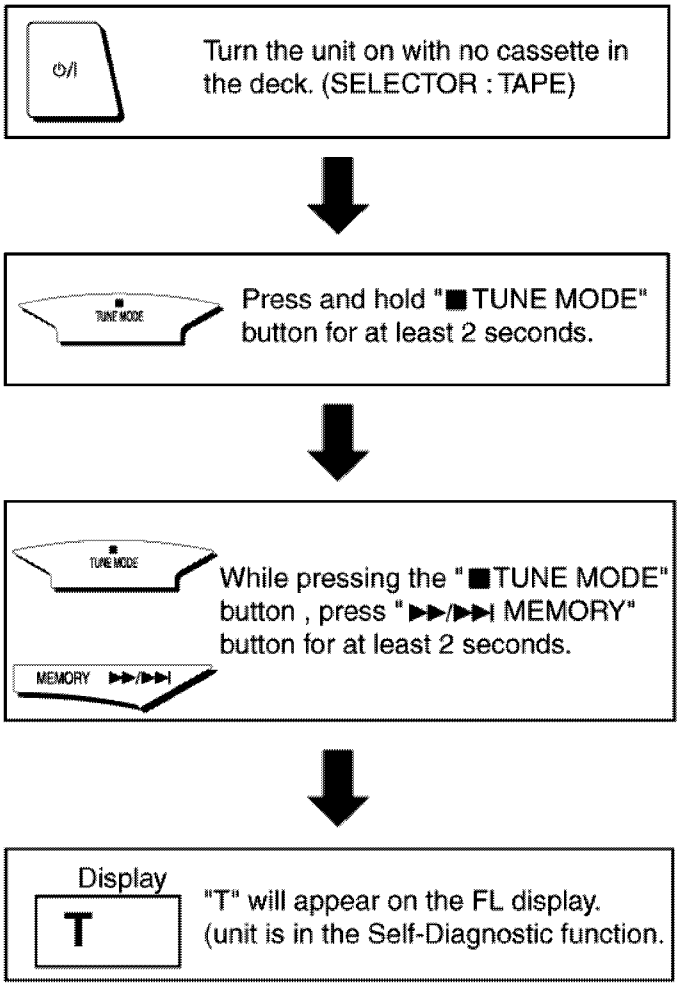
# 9 Self-Diagnostic Function

## 9.1. Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, if problems occur, they shall be memorised as errors and there shall be no error display at the time of such occurrence. Error displays shall only be displayed in the self-diagnostic mode. See "How to enter Self Diagnostic Function".

Use this function when performing maintenance on the unit.

## 9.2. How to enter the Self-Diagnostic Function


⏻/I
Turn the unit on with no cassette in the deck. (SELECTOR : TAPE)
TUNE MODE
Press and hold "■ TUNE MODE" button for at least 2 seconds.
TUNE MODE
MEMORY ▶▶/▶▶I
While pressing the "■ TUNE MODE" button , press "▶▶/▶▶I MEMORY" button for at least 2 seconds.
Display
T
"T" will appear on the FL display. (unit is in the Self-Diagnostic function.

Press "STOP/TUNE MODE " to indicate error code.

- If several problem exist, error code will change each time when "STOP/TUNE MODE " is pressed.

## 9.3. Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

1. Press "TAPE, DECK 1/2" to select Deck 2.
2. Load a normal cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.
3. Press "FAST FORWARD MEMORY" (Tape will not move).
4. Load a normalm, Cr02, metal cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press "REVERSE FM MODE/BP" (Tape will be stop after 2 seconds)
6. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
7. Press "PLAY/TUNE/TIME ADJ UP" (After TPS function, tape will stop automatically)
8. Press "REC/STOP" (Tape will not move)
9. Press "STOP/TUNE MODE" to indicate Error code.
   - If several problem exist, error code will change each time when "■ /TUNE MODE" is pressed.

   (e.g. H01 → H03 → F01 .....etc.)

10. Press "TAPE, DECK 1/2" to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

## 9.4. To clear all Error code

1. Press "STOP/TUNE MODE" button for 5 seconds.
2. FL indicator shows "CLEAR" for 1 second and change to "T".

## 9.5. How to get out from Self-Diagnostic function

1. Press "Power" button OFF.

## 9.6. Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

# 10 Description of Error Code

## 10.1. Error detection for Cassette Mechanism block

| No. | Error | Error Display | Problem condition |
|---|---|---|---|
| 1 | MODE SW detection error | H01 | Faulty operation of cassette mechanism.<br>Faulty contact or short-circuit of mechanism mode switch (S951, S971). |
| 2 | REC INH SW detection error | H02 | Recording not possible.<br>Faulty contact or short-circuit of REC INH switch (S974, S975). |
| 3 | HALF SW detection error | H03 | Playback cannot perform.<br>Faulty contact or short-circuit of HALF siwtch (S952, S972). |
| 4 | Reel Pulse detection error | F01 | The tape advances slightly and then stops.<br>Faulty reel pulse, faulty hole detect IC (IC951, IC971). |
| 5 | TPS abnormal | F02 | Cassette deck will not perform TPS function.<br>Faulty playback EQ/recording amplifier IC (IC101). |

## 10.2. Error detection for CD/Changer block

| No. | Error | Error Display | Problem condition |
|---|---|---|---|
| 1 | REST SW detection error | F15 | CD does not function.<br>This error occurs when the Optical Pick Up REST SW (S701) is not detected within the specified time (about 8 seconds) |
| 2 | CD tray opens automatically | F16 | CLAMP switch (S4) NG (Check & Replace) |
| 3 | Does not startup when [PLAY] button is pressed | F17 | BOTTOM switch (S5) NG (Check & Replace) |
| 4 | Transmission error between CD servo LSI and micon | F26 | CD does not function.<br>This error occurs when the POWER is ON for the CD block and an error is<br>detected after the transmission has started. |
| 5 | Startup fails even when you insert CD or the selected disc tray does not open | F27 | Tray 1 detect switch or Tray 2 detect switch NG (Check & Replace) |
| 6 | Cannot insert CD | F28 | Tray 1 detect switch NG (Check & Replace) |
| 7 | Cannot eject CD | F29 | Check if disc is stuck. Tray 2 detect switch NG (Confirm & Replace) |
| 8 | The CD tray closes | H15 | CD disc tray detect switch NG (S3) (Check & Replace) |

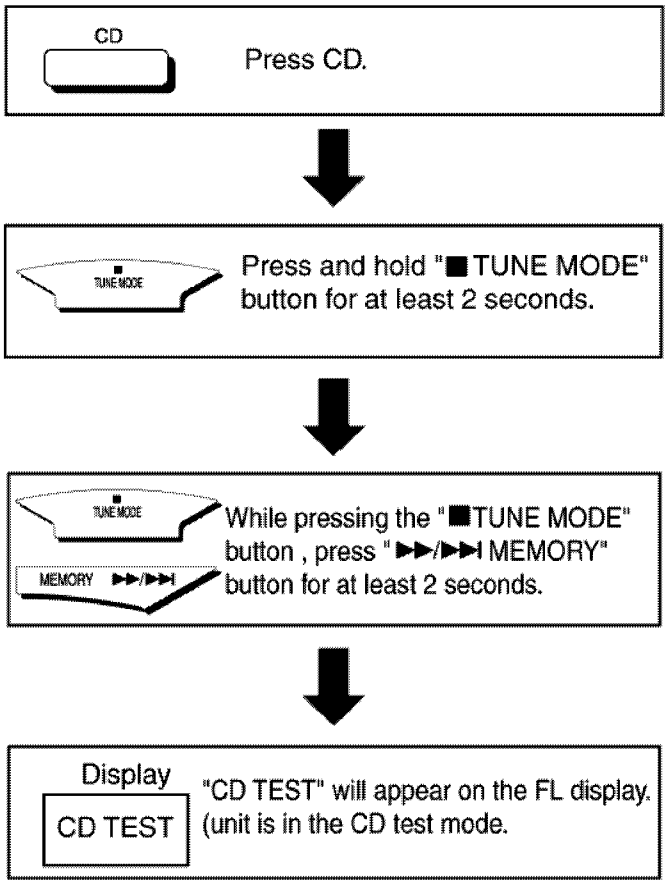
## 10.3. Power Supply related error detection

| No. | Error | Error Display | Problem condition |
|---|---|---|---|
| 1 | POWER AMP output abnormal | F61 | When POWER is switched on, power become off automatically.<br>During normal operation, if DC DET become L, PCNT shall become L and the error display on the left shall be displayed. (IC501) |

# 11 CD Test Mode Function

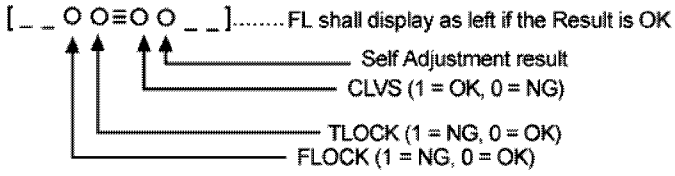
This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

## 11.1. How to set CD test mode


CD
Press CD.
TUNE MODE
Press and hold "■TUNE MODE" button for at least 2 seconds.
TUNE MODE
MEMORY ▶▶/▶▶I
While pressing the "■TUNE MODE" button , press "▶▶/▶▶I MEMORY" button for at least 2 seconds.
Display
CD TEST
"CD TEST" will appear on the FL display. (unit is in the CD test mode.

## 11.2. CD Automatically Adjustment result indication

Under CD test mode, pressing the numeric key '0' on the remote controller will display the auto adjustment result. FLOCK, TLOCK and CLVS status shall be shown as below:




During the above display, executing CD PLAY will display auto adjustment result for CD PLAY mode.

# 12 Measurements and Adjustments

## 12.1. Cassette Deck Section

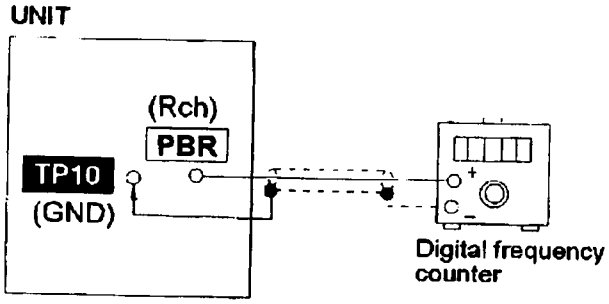
- Measurement Condition
  - Tape edit: NORMAL
  - Record timer: OFF
  - Make sure head, capstan and press roller are clean.
  - Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
  - EVM (Electronic Volmeter)
  - Digital quency counter
- Test Tape
  - Head azimuth adjustment (8 kHz, -20 dB); QZZCFM
  - Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT
  - Playback gain adjustment (315 Hz, 0 dB); QZZCFM
  - CrO2 tape, QZZCRX

### 12.1.1. Tape Speed Adjustment (Deck 1/2)

1. Set the tape edit button to "NORMAL" position.
2. Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.
3. Adjust Motor VR (DECK 2) for the output value shown below.

   Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

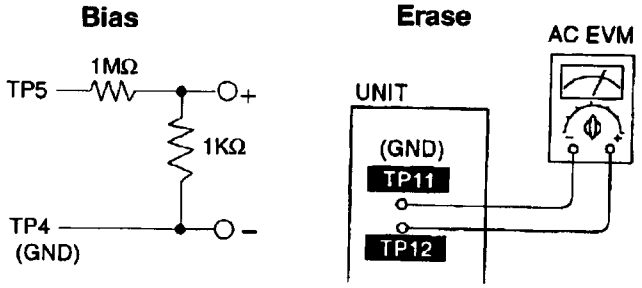
4. After alignment, assure that the output frequency of the DECK 1 FWD is within ±60 Hz of the value of the output frequency of DECK 2 FWD.




### 12.1.2. Bias and Erase Voltage Check

1. Set the unit "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to "REC" mode (use "● REC/STOP" key).
3. Measure and make sure that the output is within the standard value.
4. Insert the CrO2 tape (QZZCRX).
5. Repeat step 2 and 3.

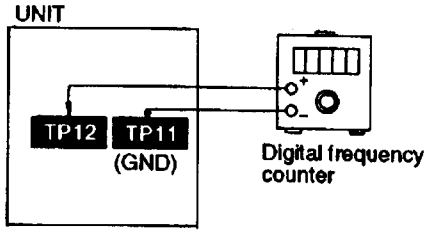
| | |
|---|---|
| Bias voltage for Deck 2 | 19 ± 4mV (Normal) |
| Erase voltage for Deck 2 | more than 100mV (Normal) |




### 12.1.3. Bias Frequency Adjustment (Deck 1/2)

1. Set the unit to "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (● use "REC/STOP" key).
3. Adjust L1002 so that the output frequency is within the standard value.

   Standard Value: 98 ±8 kHz




## 12.2. Tuner Section

### 12.2.1. AM-IF Alignment

**· AM-IF ALIGNMENT**

| SIGNAL GENERATOR OR SWEEP GENERATOR | | RADIO DIAL SETTING | INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE) | **ADJUSTMENT(Shown in Fig.3)** | REMARKS |
|---|---|---|---|---|---|
| CONNECTIONS | FREQUENCY | | | | |
| Fashion a loop of several turns of wire and radiate signal into loop of receiver. | 450 kHz 30% Mod. at 400Hz. | Point of non-interference (on/about 600 kHz) | Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument. | Z102 (AM IFT) | Adjust for maximum output. |

· **AM-RF ALIGNMENT**

| SIGNAL GENERATOR OR SWEEP GENERATOR | | RADIO DIAL SETTING | **INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)** | **ADJUSTMENT(Shown in Fig.1)** | REMARKS |
|---|---|---|---|---|---|
| CONNECTIONS | FREQUENCY | | | | |
| Fashion a loop of several turns of wire and radiate signal into loop of receiver. | 520 kHz | Tuning capacitor fully closed. | Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument. | Z101 (AM OSC Coil) | Adjust for maximum output. |
| Fashion a loop of several turns of wire and radiate signal into loop of receiver. | 600 kHz | Tuning capacitor fully open. | Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument. | Z101 (AM ANT Coil) | Adjust for maximum output. |

# 12.3. Alignment Points

**Cassette Deck Section**

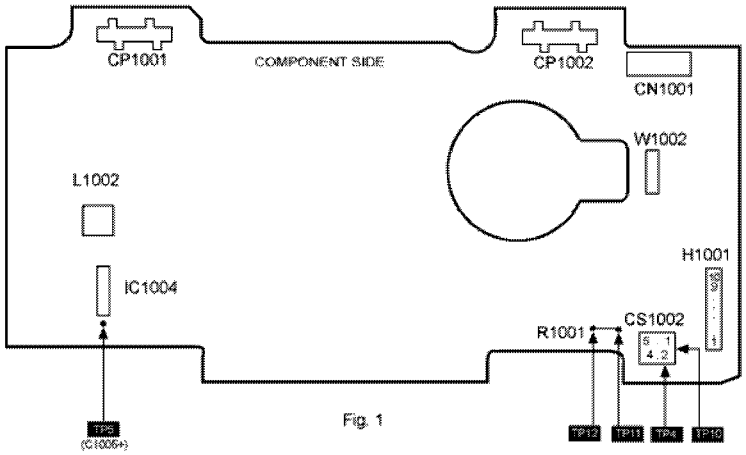



Fig. 1

**Tuner Section**

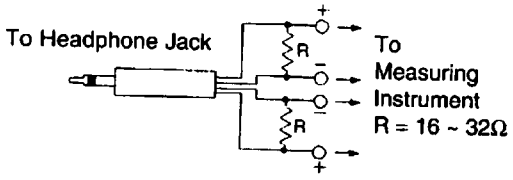



Fig. 2

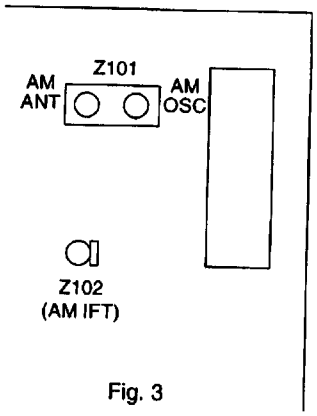
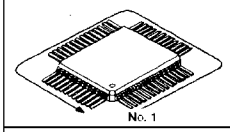


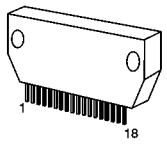

Fig. 3

# 13 Illustration of IC's, Transistors and Diodes

M38B79MFA053 (100P)
BH3874AKS2 (64P)
MN662790RSC (80P)
M38B79MFA054 (100P)

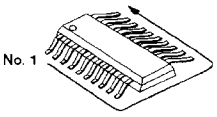



STK470-080 (18P)




BU2090AF-E2 (16P)
LA1833NMNTLM (24P)
LC72131MDTRM (20P)
AN7348STA-E1 (24P)
BA4558FE2 (8P)
AN8885SBE1 (28P)
TC4052BFNELM (64P)

M62429FP (8P)
M62464FP (80P)
M5228FPE1 (14P)

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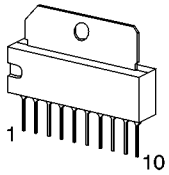
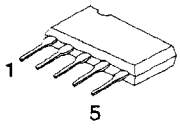
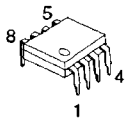


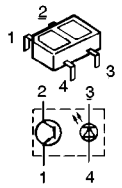

BA7755A



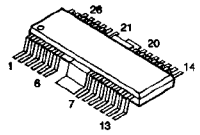

M5218AP




0N2180RLC1

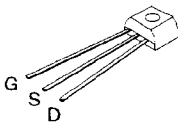



AN8739SBE2

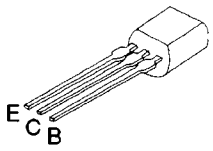



2SC2058SPTA

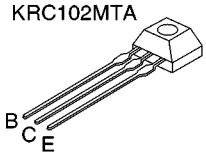
2SK544F-AC




KTA1504GRTA
KTA12710YTA
KTD1146YTA
2SB621ARSTA
KTC3205YTA
KRC101MTA

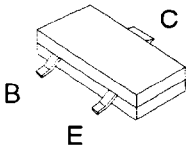



KRA102MTA
KRC103MTA
KRC102MTA

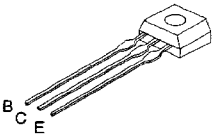



2SA1037AKSTX
2SC2412KT96R
KRA102STA
KRA111STA

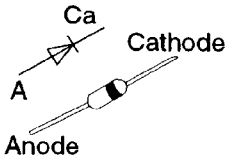
KTC3875GRTA
KRC111STA
KTD1304TA
KRC102STA



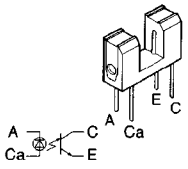

2SC2058SPTA
2SC2787FL1TA
2SD2144STA
KTC3199GRTA
RVTDTC143EST
2SC2786MTA



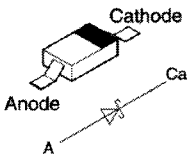

RVD1SS133TA
1SS291TA
MA165TA
MA700ATA
MA723TA




GP1S94




MA728TX




MA8300MTX
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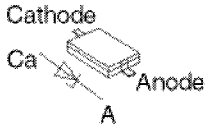
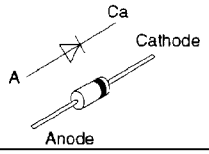
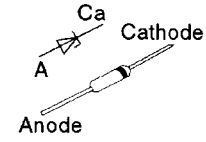
UDZSTE175R1B
UDZSTE177R5B
UDZTE173R6B



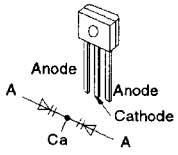

1D3E RL1N4003S-P
1T3T 1N5402BM21



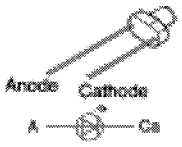

MA4020LTA
MTZJ6R8BTA
MTZJ4R7BTA



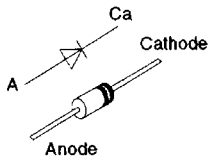

SVC211SPA-AL



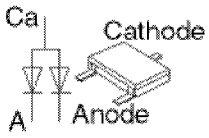

SLI325URCT31
SLR325MCT31W




RK306LFU1




DAP202KT146



# 14 Terminal Function of IC's

## 14.1. IC701 (AN8885SBE1) Servo Amplifier

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | PDE | I | Tracking signal input 1 |
| 2 | PDF | I | Tracking signal input 2 |
| 3 | VCC | I | Power supply |
| 4 | PDA | I | Focus signal input terminal 1 |
| 5 | PDB | I | Focus signal input terminal 2 |
| 6 | LPD | I | APC amp input |
| 7 | LD | O | APC amp output |
| 8 | RF | O | RFsumming output |
| 9 | RFIN | I | Detector's input |
| 10 | CSBRT | I | Capacitor for OFTR connection |
| 11 | CEA | I | Capacitor for HPF amp connection |
| 12 | BDO | O | BDO output ("H" : drop out) |
| 13 | LDON | I | APC control |
| 14 | GND | — | Ground |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 15 | /RFDET | O | NRFDET output ("L" : detection) |
| 16 | PDOWN | O | Power-down input |
| 17 | OFTR | O | OFTR output |
| 18 | NC | O | N.C. |
| 19 | ENV | O | 3T-ENV output |
| 20 | NC | I | N.C. |
| 21 | NC | I | N.C. |
| 22 | TEN | I | TE amp input |
| 23 | TEOUT | O | TE amp output |
| 24 | FEOUT | O | FE amp output |
| 25 | FEN | I | FE amp input |
| 26 | VREF | O | Reference voltage output |
| 27 | TBAL | I | Tracking balance control |
| 28 | FBAL | I | Focus balance control |

## 14.2. IC702 (MN662790RSC) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | BCLK | O | N.C. |
| 2 | LRCK | O | N.C. |
| 3 | SRDATA | O | N.C. |
| 4 | DVDD1 | I | Power supply input (for digital circuit) |
| 5 | DVSS1 | I | GND (for digital circuit) |
| 6 | TX | O | Digital audio interface signal output (Latches data at first transition) |
| 7 | MCLK | I | Microprocessor command clock signal input |
| 8 | MDATA | I | Microprocessor command data signal input |
| 9 | MLD | I | Microprocessor command load signal input |
| 10 | SENSE | O | Sense signal output (OFT, FESL,MAGEND,NAJEND,POSAD,SFG) (Not used, open) |
| 11 | /FLOCK | O | Focus servo feeding signal output ("L" : Feed) |
| 12 | /TLOCK | O | Tracking servo feeding signal output ("L" : Feed) |
| 13 | BLKCK | O | Sub-code block clock signal output (BLKCKf = 75Hz during normal playback) |
| 14 | SQCK | I | External clock signal input for sub-code Q resistor |
| 15 | SUBQ | O | Sub-code Q code output |
| 16 | DMUTE | I | Muting input ("H" : mute) |
| 17 | STAT | O | Status signal output (CRC,CUE,CLVS,TTSTVP,FCLV,SQCK) |
| 18 | /RST | I | Reset signal input |
| 19 | SMCK | O | 1/2-diveded clock signal of crystal osscillating at MSEL = "H" (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = "L" (fSMCK = 4.2336 MHz) |
| 20 | CSEL | I | Frequency Selection Terminal H = 33.8688 MHz ; L = 16.9344 MHz |
| 21 | TRV | O | N.C |
| 22 | TVD | O | Traverse drive output |
| 23 | PC | O | Spindle motor ON output ("L" : ON) |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 24 | ECM | O | Spindle motor drive signal output(forced mode output) |
| 25 | ECS | O | Spindle motor drive signal output (servo error signal output) |
| 26 | KICK | O | N.C. |
| 27 | TRD | O | Tracking drive output |
| 28 | FOD | O | Focus drive output |
| 29 | VREF | I | D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input |
| 30 | FBAL | O | Focus balance adjustment output |
| 31 | TBAL | O | Tracking balance adjustment output |
| 32 | FE | I | Focus error signal input (analog input) |
| 33 | TE | I | Tracking error signal input (analog input) |
| 34 | RFENV | I | RF envelope signal input |
| 35 | VDET | I | Vibration detection signal input ("H" :detection) |
| 36 | OFT | I | Off-track signal input ("H" : off track) |
| 37 | TRCRS | I | Track cross signal input |
| 38 | /RFDET | I | RF detection signal input ("L" : detection) |
| 39 | BDO | I | Dropout signal input ("H" : Dropout) |
| 40 | LDON | O | Laser on signal output ("H" : ON) |
| 41 | PLLF2 | I/O | N.C. |
| 42 | DSLF2 | O | Tracking Offset alignment output/DSL Balance Output (DA Output) |
| 43 | WVEL | O | N.C. |
| 44 | ARF | I | RF signal input |
| 45 | IREF | I | Reference current input |
| 46 | DRF | I | DSL bias terminal (Not used, open) |
| 47 | DSLF | I/O | DSL loop filter terminal |
| 48 | PLLF | I/O | PLL loop filter terminal |
| 49 | VCOF | I/O | VCO loop filter terminal |
| 50 | AVDD2 | I | Power supply input (for analog circuit) |
| 51 | AVSS2 | I | GND (for analog circuit) |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 52 | EFM | - | EFM signal output |
| 53 | PCK | - | PLL extraction clock output (fPCK = 4.321 MHz during normal playback) |
| 54 | VCOF2 | I/O | VCO Loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit |
| 55 | SUBC | O | Sub-code serial data output |
| 56 | SBCK | I | Clock input for sub-code serial data |
| 57 | VSS | I | GND |
| 58 | X1 IN | I | Crystal oscillating circuit input (f = 16.9344MHz) |
| 59 | X2 OUT | O | Crystal oscillating circuit input (f = 16.9344 MHz) |
| 60 | VDD | I | Power supply input (for oscillating circuit) |
| 61 | BYTCK | - | Byte clock output |
| 62 | /CLDCK | - | Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback) |
| 63 | FCLK | - | Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz) |
| 64 | IPFLAG | - | Interpolation flag output (“H” : Interpolation) |
| 65 | FLAG | - | Flag output |

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 66 | CLVS | - | Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo) |
| 67 | CRC | - | Sub-code CRC checked output (“H’ :OK, “L” :NG) |
| 68 | DEMPH | - | De-emphassis ON signal output (“H” :ON) |
| 69 | RESY | - | Frame re-synchronizing signal output |
| 70 | IOSEL | I | Mode Switching Terminal |
| 71 | /TEST | I | Test input |
| 72 | AVDD1 | I | Power supply input (for analog circuit) |
| 73 | OUTL | O | Left channel audio signal output |
| 74 | AVSS1 | I | GND |
| 75 | OUTR | O | Right channel audio signal output |
| 76 | RSEL | I | RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RESL="L") |
| 77 | IOVDD | I | 5V supply input |
| 78 | PSEL | I | Test terminal (connected to Gnd) |
| 79 | MSEL | I | SMCK oscillating frequency designation input (“L”:4.2336 MHz, “H”:8.4672 MHz) |
| 80 | SSEL | I | SUBQ output mode select (“H”:Q-code buffer mode) |

## 14.3. IC703 (AN8739SBE2) Focus coil/ Tracking coil/ Traverse motor/ Spindle motor driver

| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | /RST | - | RESET output terminal |
| 2 | NC | - | N.C. |
| 3 | IN2 | I | Motor Drive (2) input |
| 4 | PC2 | I | Turntable motor drive signal (“L :ON) |
| 5 | NC | - | N.C. |
| 6 | IN1 | I | Motor driver (1) input |
| 7 | NC | I | N.C. |
| 8 | PVCC1 | I | Power supply (1) for driver |
| 9 | PGND1 | - | Ground connection (1) for driver |
| 10 | NC | - | N.C. |
| 11 | D1- | O | Motor driver (1) reverse-action output |
| 12 | D1+ | O | Motor driver (1) forward-action output |
| 13 | D2- | O | Motor driver (2) reverse-action output |
| 14 | D2+ | O | Motor driver (2) forward-action output |
| 15 | D3- | O | Motor driver (3) reverse-action output |
| 16 | D3+ | O | Motor driver (3) forward-action output |
| 17 | D4- | O | Motor driver (4) reverse-action output |
| 18 | D4+ | O | Motor driver (4) forward-action output |
| 19 | NC | - | N.C. |
| 20 | PGND2 | - | Ground connection (2) for driver |
| 21 | PVCC2 | I | Power supply (2) for driver |
| 22 | NC | - | N.C. |
| 23 | VCC | I | Power supply terminal |
| 24 | VREF | I | Reference voltage input |
| 25 | IN4 | I | Motor driver (4) input |
| 26 | IN3 | I | Motor driver (3) input |
| 27 | RSTIN | I | Reset terminal |

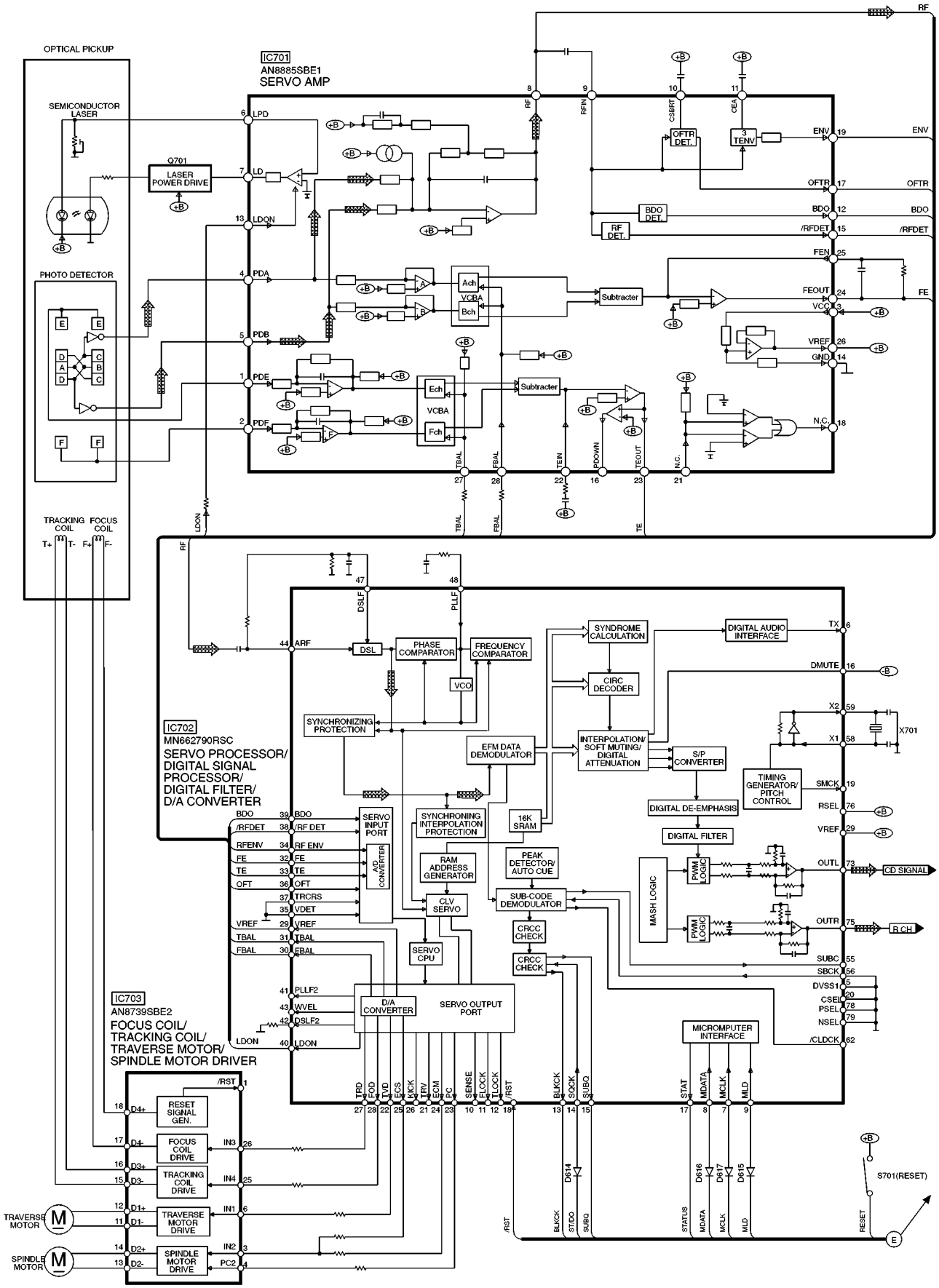
| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 28 | NC | - | N.C. |

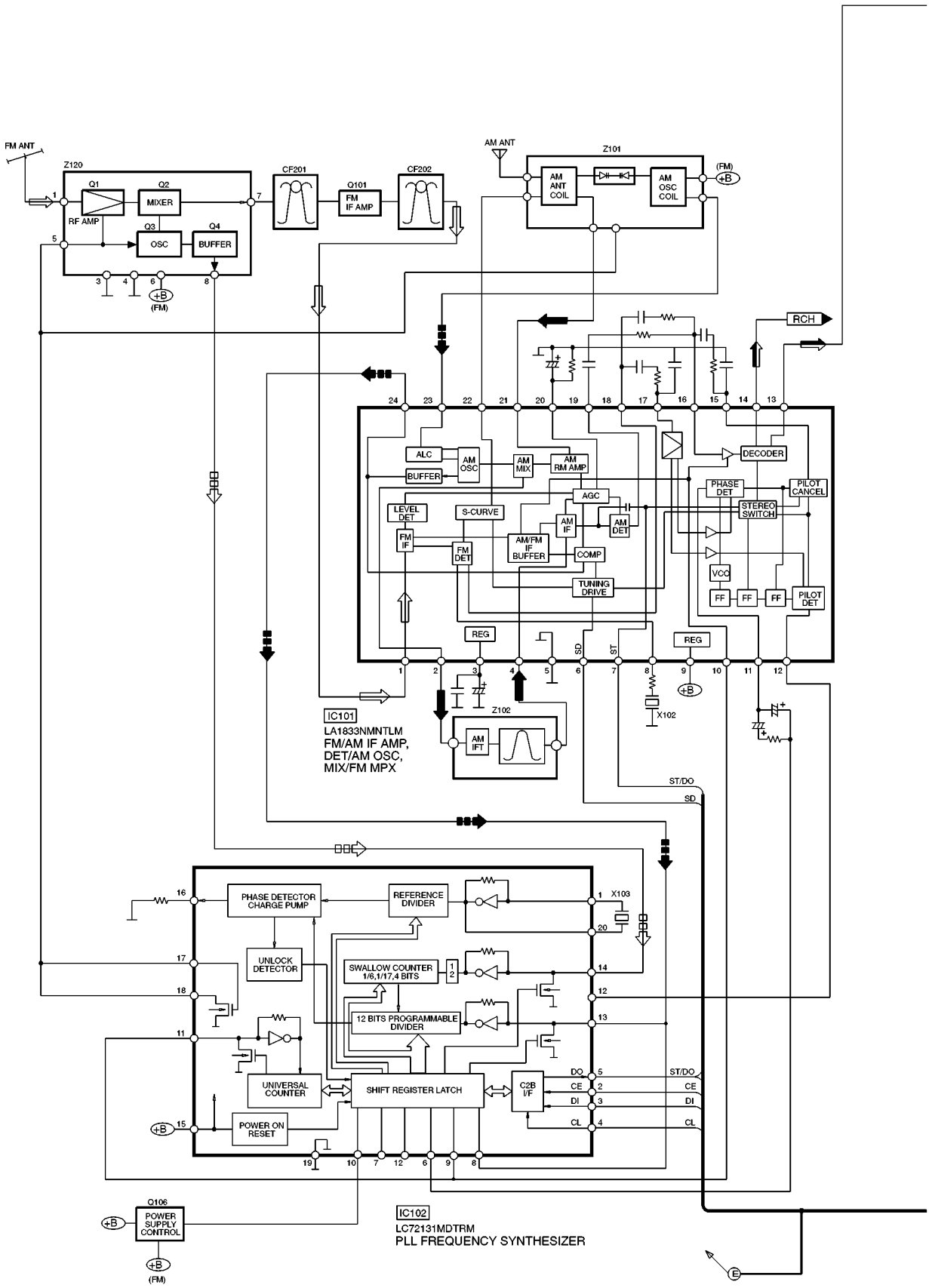
# 14.4. IC600 (M38B79MFA054) System Microprocessor

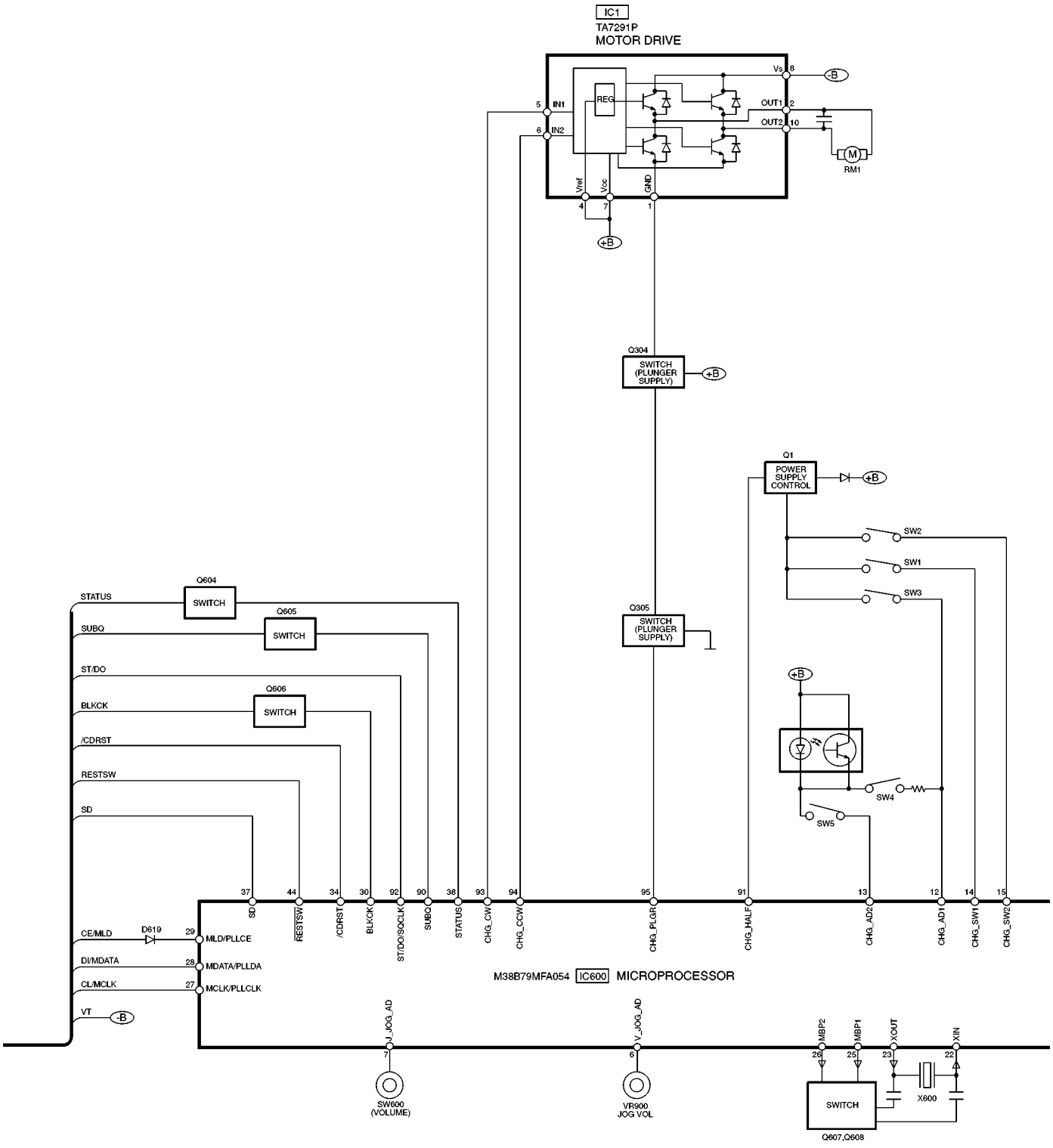
| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 1 | DECK2 | I | Tape mecha condition input (Half2/Reci_F/Mode/Reci_R) |
| 2 | KEY4 | I | Key 4 input |
| 3 | KEY3 | I | Key 3 input |
| 4 | KEY2 | I | Key 2 input |
| 5 | KEY1 | I | Key 1 input |
| 6 | V_JOG_AD | I | Volume jog A-D detection input |
| 7 | J_JOG_AD | I | EQ Joy jog A-D detection input |
| 8 | SER1 | I/O | EE_DAT / EX1_DAT |
| 9 | SER2 | O | EX1_CLK / MK_DAT / SP2_DAT |
| 10 | SER3 | O | ASP Latch |
| 11 | SPE | I | Speana input |
| 12 | CHG_AD1 | I | Open/Clamp changer input |
| 13 | CHG_AD2 | I | Position/Bottom changer input |
| 14 | CHG_SW1 | I | Changer switch 1 input |
| 15 | CHG_SW2 | I | Changer switch 2 input |
| 16 | ECONO | O | Main transformer control output for economy mode |
| 17 | CNV ss | - | Flash mode terminal (connect to ground) |
| 18 | RESET | - | RESET input |
| 19 | XCOUT | - | 32.768 kHz sub clock |
| 20 | XCIN | - | 32.768 kHz sub clock |
| 21 | VSS | - | Ground (0V) |
| 22 | XIN | - | 4.19 MHz main clock |
| 23 | XOUT | - | 4.19 MHz main clock |
| 24 | VCC | - | Power supply (+5V) |
| 25 | MBP1 | O | MPU beat proof output 1 |
| 26 | MBP2 | O | MPU beat proof output 2 |
| 27 | MCLK/ PLLCK | O | CD command clock/tuner PLL clock output |
| 28 | MDATA/ PLLDA | O | CD command data/tuner PLL data output |
| 29 | MLD/PLLCE | O | CD command load/tuner PLL chip enable |
| 30 | BLKCK | I | CD block clock input (INV) |
| 31 | RMT | I | Remote control input |
| 32 | SYNC | I | AC failure detect input |
| 33 | DCDET 1 | I | DC detect input |
| 34 | CDRST | O | CD reset output |
| 35 | SER6 | O | SP_CLK/DPL_CLK/EX2_CLK |
| 36 | DPL-LAT | O | DPL-LAT |
| 37 | SD | I/O | Tuner signal detect input |
| 38 | STATUS | I | CD status input |
| 39 | SER4 | O | EE_CLK/MK_CLK EX2_DAT |
| 40 | SER5 | O | SP_DAT/DPL_DAT/SP2_CLK |
| 41 | SP_A | O | Speana control output A |
| 42 | SP_B | O | Speana control output B |
| 43 | SP_C | O | Speana control output C |
| 44 | REST_SW | I | CD rest switch input |
| 45-63 | SEG1 SEG19 | O | Segment drive output (Anode drive output) |
| 64-72 | SEG20-28 REG1-9 | O | Segment drive output (Anode drive output) For regional setting/ function selection use |
| 73-75 | SEG29-31 | O | Segment drive output (Anode drive output) |
| 76 | SEG32 | O | Segment drive output |
| 77-88 | GRD12-1 | O | Digit drive output (Grid drive output) |
| 89 | VEE | - | Power supply (-30V) |
| 90 | SUBQ | I | CD subcode input (INV) |

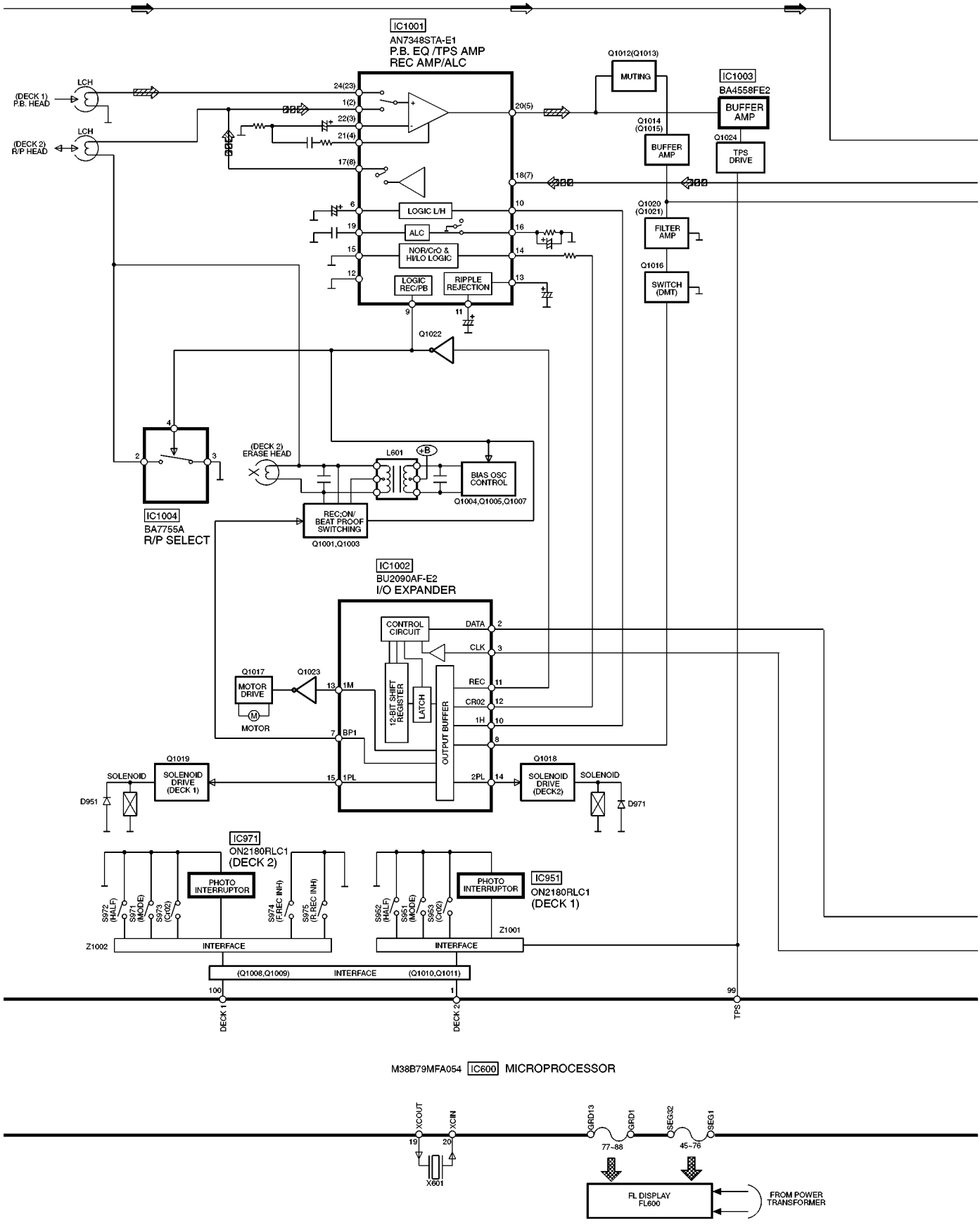
| Pin No. | Mark | I/O | Function |
|---|---|---|---|
| 91 | CHG_HALF | O | Changer half output |
| 92 | SQCK/ST/DO | O | Subclock output/tuner stereo/do input |
| 93 | CHG_CW | O | Changer motor CW |
| 94 | CHG_CCW | O | Changer motor CCW |
| 95 | CHG_PLGR | O | Changer plunger output |
| 96 | REG IN/EE_CS | I/O | region and function setting input and EEPROM chip select output |
| 97 | AVSS | - | Analog ground (0V) |
| 98 | VREF | - | Reference for A-D |
| 99 | TPS | I | tape mecha TPS input/chrome 1/ chrome 2 |
| 100 | DECK1 | I | Tape mecha condition input (Half1/Mode/Photo1/Photo 2) |

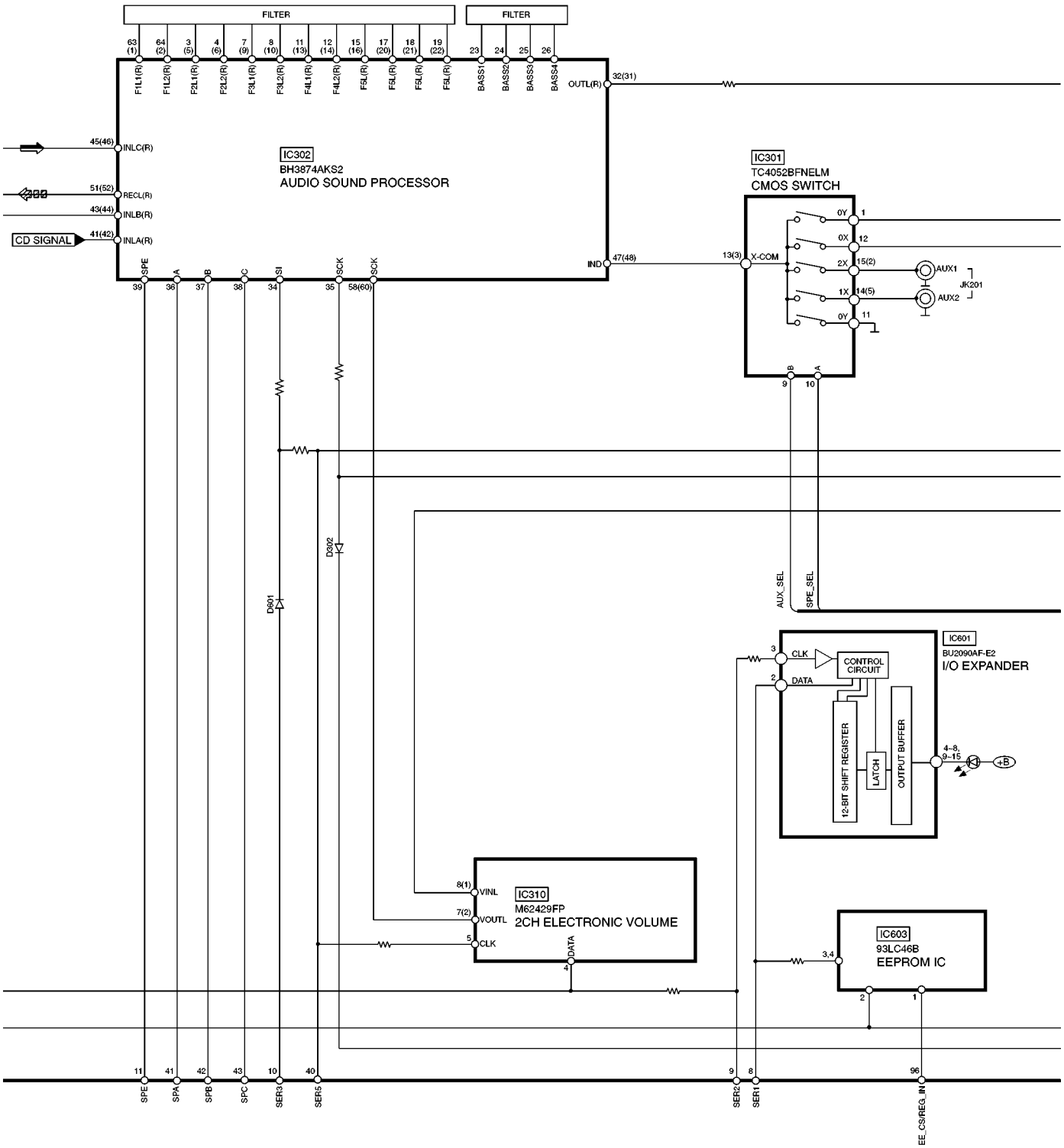
# 15 Block Diagram



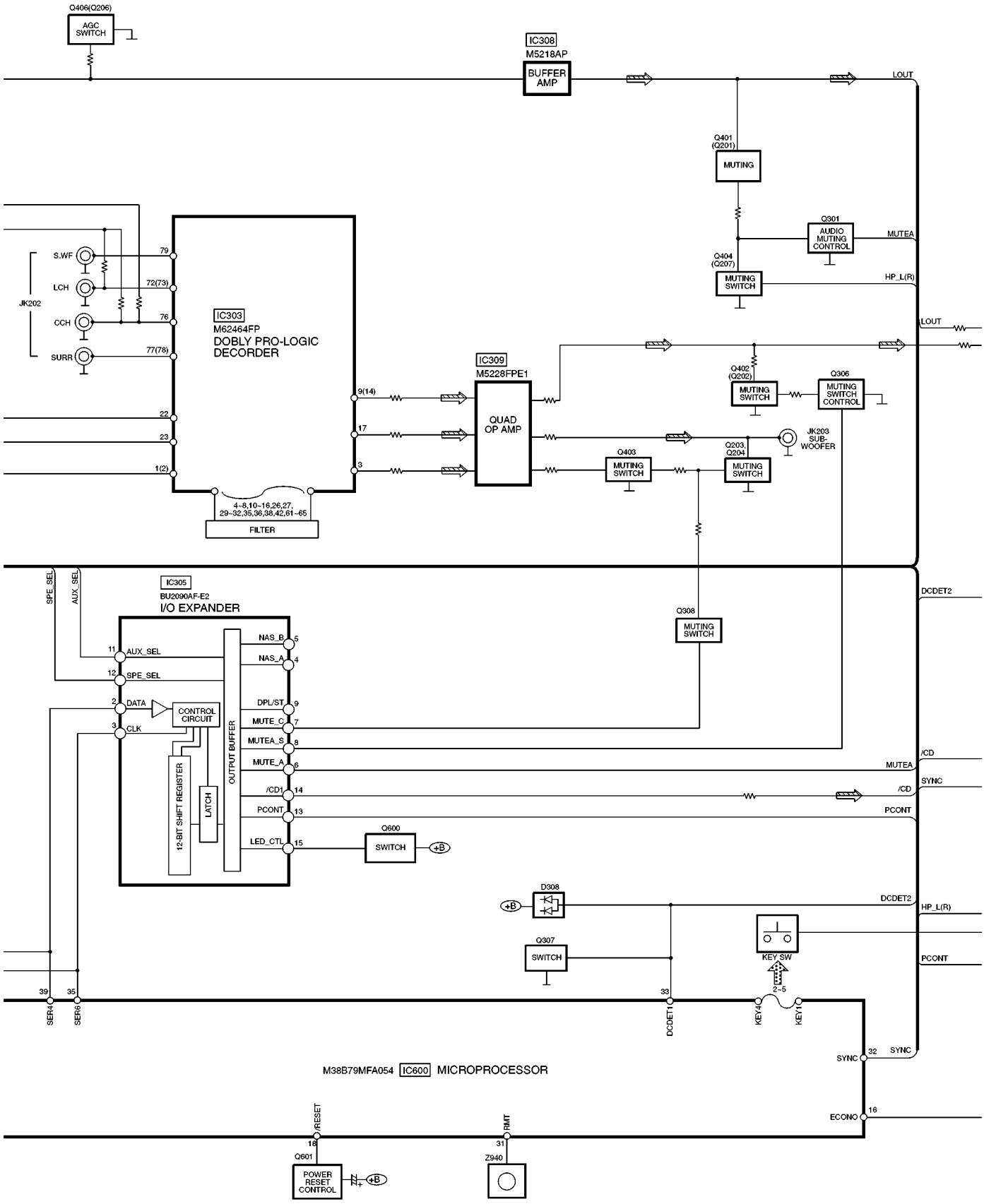

FM ANT
Z120
Q1
Q2
MIXER
RF AMP
Q3
OSC
Q4
BUFFER
CF201
Q101
FM IF AMP
CF202
AM ANT
Z101
AM ANT COIL
AM OSC COIL
(FM)
+B
RCH
ALC
AM OSC
BUFFER
AM MIX
AM RM AMP
DECODER
PHASE DET
PILOT CANCEL
AGC
LEVEL DET
S-CURVE
AM IF
AM DET
STEREO SWITCH
FM IF
FM DET
AM/FM IF BUFFER
COMP
VCO
TUNING DRIVE
FF
PILOT DET
REG
SD
ST
X102
Z102
AM IFT
IC101
LA1833NMNTLM
FM/AM IF AMP,
DET/AM OSC,
MIX/FM MPX
ST/DO
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X103
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
C2B I/F
DO
CE
DI
CL
POWER ON RESET
Q106
POWER SUPPLY CONTROL
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
E

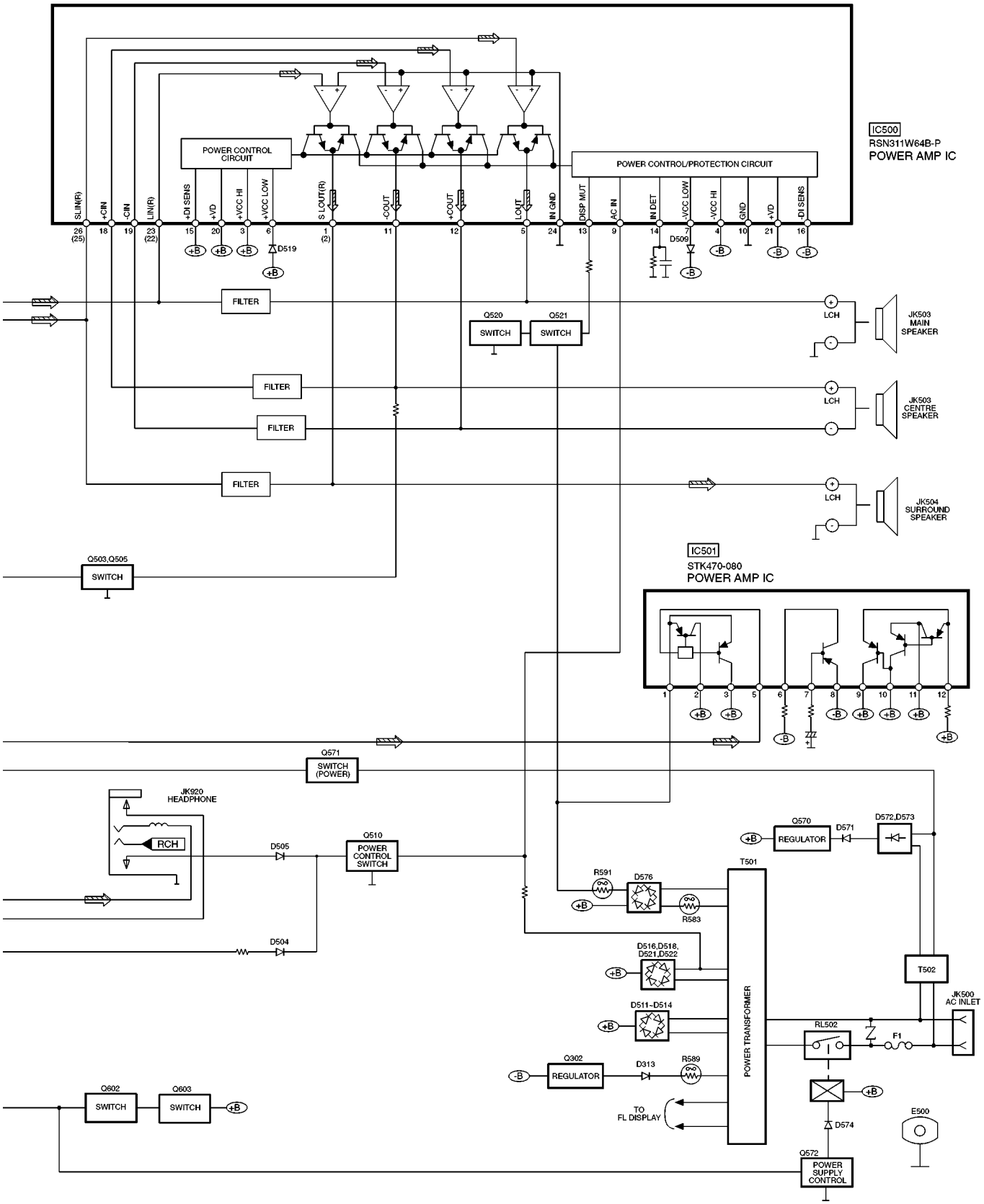

IC1
TA7291P
MOTOR DRIVE
Vs
IN1
IN2
REG
OUT1
OUT2
Vref
Vcc
GND
RM1
+B
-B
Q304
SWITCH (PLUNGER SUPPLY)
Q305
SWITCH (PLUNGER SUPPLY)
Q1
POWER SUPPLY CONTROL
SW1
SW2
SW3
SW4
SW5
Q604
SWITCH
Q605
SWITCH
Q606
SWITCH
STATUS
SUBQ
ST/DO
BLKCK
/CDRST
RESTSW
SD
CE/MLD
DI/MDATA
CL/MCLK
VT
D619
MLD/PLLCE
MDATA/PLLDA
MCLK/PLLCLK
SD
RESTSW
/CDRST
BLKCK
ST/DO/SQCLK
SUBQ
STATUS
CHG_CW
CHG_CCW
CHG_PLGR
CHG_HALF
CHG_AD2
CHG_AD1
CHG_SW1
CHG_SW2
M38B79MFA054 IC600 MICROPROCESSOR
J_JOG_AD
V_JOG_AD
SW600 (VOLUME)
VR900 JOG VOL
MBP2
MBP1
XOUT
XIN
X600
SWITCH
Q607,Q608


IC1001
AN7348STA-E1
P.B. EQ /TPS AMP
REC AMP/ALC
(DECK 1) P.B. HEAD
(DECK 2) R/P HEAD
LCH
LOGIC L/H
ALC
NOR/CrO & HI/LO LOGIC
LOGIC REC/PB
RIPPLE REJECTION
Q1022
Q1012(Q1013)
MUTING
IC1003
BA4558FE2
BUFFER AMP
Q1014 (Q1015)
BUFFER AMP
Q1024
TPS DRIVE
Q1020 (Q1021)
FILTER AMP
Q1016
SWITCH (DMT)
(DECK 2) ERASE HEAD
L601
+B
BIAS OSC CONTROL
Q1004,Q1005,Q1007
REC:ON/ BEAT PROOF SWITCHING
Q1001,Q1003
IC1004
BA7755A
R/P SELECT
IC1002
BU2090AF-E2
I/O EXPANDER
CONTROL CIRCUIT
DATA
CLK
REC
CR02
1H
12-BIT SHIFT REGISTER
LATCH
OUTPUT BUFFER
Q1017
MOTOR DRIVE
MOTOR
Q1023
1M
BP1
Q1019
SOLENOID DRIVE (DECK 1)
SOLENOID
D951
1PL
2PL
Q1018
SOLENOID DRIVE (DECK2)
SOLENOID
D971
IC971
ON2180RLC1
(DECK 2)
PHOTO INTERRUPTOR
S972 (HALF)
S971 (MODE)
S973 (C/02)
S974 (F.REC INH)
S975 (R.REC INH)
Z1002
INTERFACE
IC951
ON2180RLC1
(DECK 1)
PHOTO INTERRUPTOR
S952 (HALF)
S951 (MODE)
S953 (C/02)
Z1001
INTERFACE
(Q1008,Q1009) INTERFACE (Q1010,Q1011)
DECK 1
DECK 2
TPS
M38B79MFA054 IC600 MICROPROCESSOR
XCOUT
XCIN
X601
GRD13
GRD1
SEG32
SEG1
77~88
45~76
FL DISPLAY FL600
FROM POWER TRANSFORMER




M38B79MFA054 IC600 MICROPROCESSOR


Q406(Q206)
AGC SWITCH
IC308
M5218AP
BUFFER AMP
LOUT
Q401 (Q201)
MUTING
Q301
AUDIO MUTING CONTROL
MUTEA
Q404 (Q207)
MUTING SWITCH
HP_L(R)
JK202
S.WF
LCH
CCH
SURR
79
72(73)
76
77(78)
IC303
M62464FP
DOBLY PRO-LOGIC DECORDER
22
23
1(2)
4-8,10-16,26,27, 29-32,35,36,38,42,61-65
FILTER
9(14)
17
3
IC309
M5228FPE1
QUAD OP AMP
Q402 (Q202)
MUTING SWITCH
Q306
MUTING SWITCH CONTROL
JK203 SUB-WOOFER
Q403
MUTING SWITCH
Q203, Q204
MUTING SWITCH
Q308
MUTING SWITCH
SPE_SEL
AUX_SEL
IC305
BU2090AF-E2
I/O EXPANDER
11 AUX_SEL
12 SPE_SEL
2 DATA
3 CLK
CONTROL CIRCUIT
12-BIT SHIFT REGISTER
LATCH
OUTPUT BUFFER
NAS_B 5
NAS_A 4
DPL/ST 9
MUTE_C 7
MUTEA_S 8
MUTE_A 6
/CD1 14
PCONT 13
LED_CTL 15
Q600
SWITCH
+B
DCDET2
/CD
MUTEA
SYNC
PCONT
D308
Q307
SWITCH
KEY SW
2~5
39 SER4
35 SER6
33 DCDET1
KEY4
KEY1
M38B79MFA054 IC600 MICROPROCESSOR
SYNC 32 SYNC
ECONO 16
/RESET 18
RMT 31
Q601
POWER RESET CONTROL
Z940


IC500
RSN311W64B-P
POWER AMP IC
POWER CONTROL CIRCUIT
POWER CONTROL/PROTECTION CIRCUIT
SLIN(R)
+CIN
-CIN
LIN(R)
+DI SENS
+VD
+VCC HI
+VCC LOW
S LOUT(R)
-COUT
+COUT
LOUT
IN GND
DISP MUT
AC IN
IN DET
-VCC LOW
-VCC HI
GND
-VD
DI SENS
D519
D509
FILTER
FILTER
FILTER
Q520
SWITCH
Q521
SWITCH
LCH
JK503
MAIN
SPEAKER
JK503
CENTRE
SPEAKER
JK504
SURROUND
SPEAKER
Q503,Q505
SWITCH
IC501
STK470-080
POWER AMP IC
Q571
SWITCH
(POWER)
JK920
HEADPHONE
RCH
D505
Q510
POWER
CONTROL
SWITCH
D504
Q570
REGULATOR
D571
D572,D573
R591
D576
R583
T501
D516,D518,
D521,D522
D511~D514
POWER TRANSFORMER
T502
JK500
AC INLET
RL502
F1
Q302
REGULATOR
D313
R589
TO
FL DISPLAY
D574
E500
Q572
POWER
SUPPLY
CONTROL
Q602
SWITCH
Q603
SWITCH
SIGNAL LINES
MAIN SIGNAL LINE
FM OSC SIGNAL LINE
FM SIGNAL LINE
CD SIGNAL LINE
AM OSC SIGNAL LINE
AM SIGNAL LINE
FM & AM SIGNALS LINE
PLAYBACK SIGNAL LINE
RECORDING SIGNAL LINE

# 16 Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

**S701** : Reset Switch
**S900** : CD Manager Switch
**S901** : Switch CD 1
**S902** : Switch CD 2
**S903** : Switch CD 3
**S904** : Switch CD 4
**S905** : Switch CD 5
**S906** : Rec/Stop select Switch
**S907** : Reverse Mode select Switch
**S908** : CD Tape Edit select Switch
**S909** : Switch Tune Down
**S910** : Switch FM Mode/BP
**S911** : Switch Memory
**S912** : Switch Tune Mode
**S913** : Switch Tune Up
**S920** : Switch CD Eject
**S940** : Switch AUX
**S941** : Switch Tuner
**S942** : Switch Tape
**S943** : Switch CD
**S945** : Switch Super Sound EQ
**S951** : Switch Deck 2
**S951** : Mode Switch
**S952** : Half Switch
**S953** : Switch CR02
**S956** : Switch Power
**S958** : Switch Play/Rec Timer
**S959** : Switch Clock/Timer
**S961** : Switch Display/Character
**S962** : Switch Deck 1
**S965** : Switch Nas
**S966** : Switch 6ch
**S967** : Switch DPL
**S971** : Switch Mode
**S972** : Half Switch
**S973** : Switch CR02
**S974** : Switch RECINH_R
**S975** : Switch RECINH_F
**S976** : Switch Metal
**SW1** : Switch Push
**SW2** : Switch Push
**SW3** : Switch
**SW4** : Switch CD
**SW5** : Switch Lock
**SW600** : Switch Joy Jog

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

| | | | | | |
|---|---|---|---|---|---|
| No mark | : Playback | << >> | : Rec | < > | : FM |
| (( )) | : CD | ( ) | : AM | [ ] | : AUX |

- **Importance safety notice :**

  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

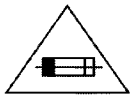
**Caution !**

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

**CAUTION** : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **F1, 4A, 125V FUSE.**



RISK OF FIRE-REPLACE FUSE AS MARKED.

**FUSE CAUTION**

These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

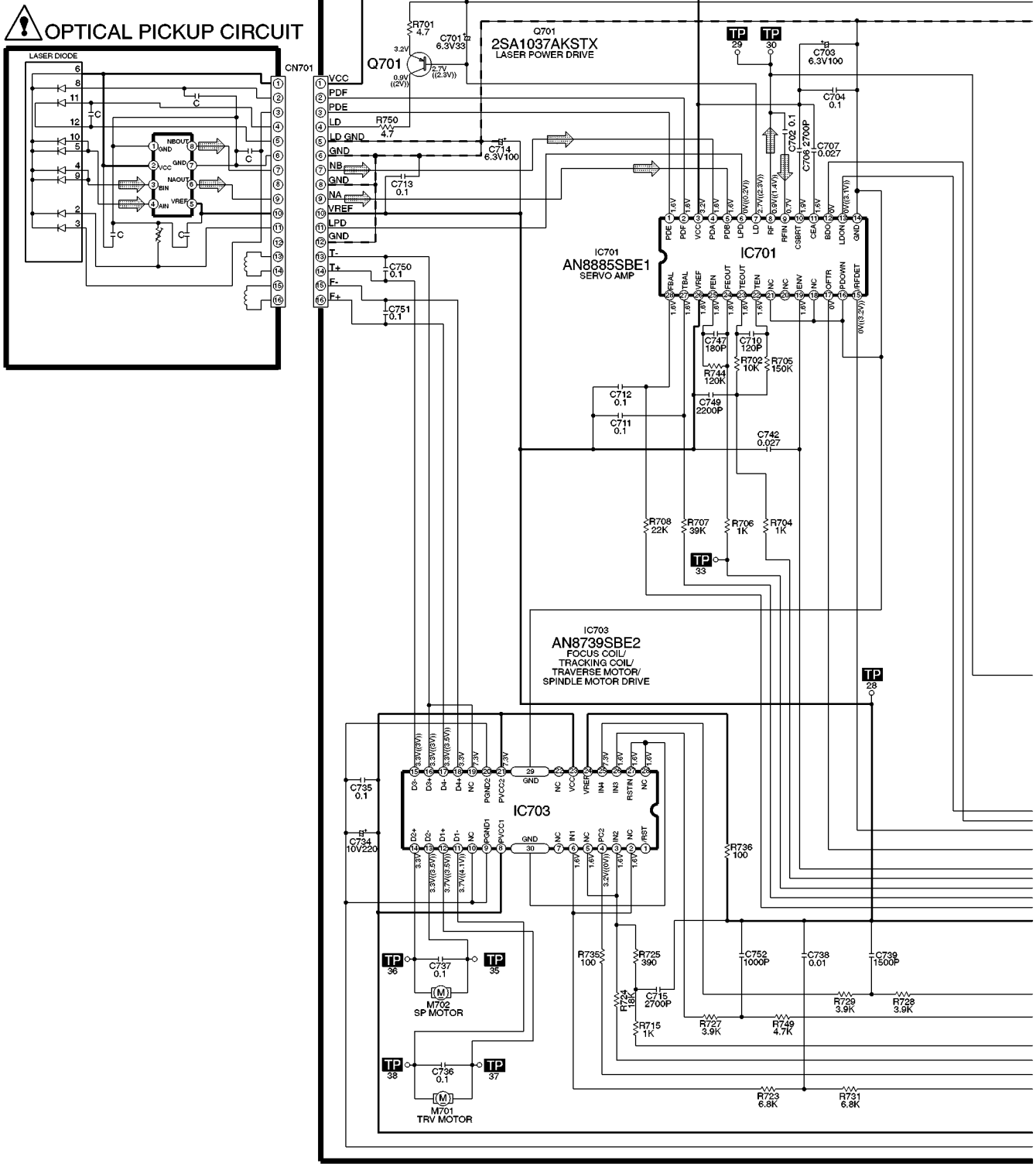
Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

"CAUTION: REPLACE FUSIBLE RESISTOR WITH THE SAME TYPE RSFMB40KT-L FUSIBLE RESISTOR" "ATTENTION: REMPLACER LA RESISTANCE FUSIBLE PAR UNE RESISTENCE FUSIBLE DE MEME TYPE RSFMB40KT-L.

# SCHEMATIC DIAGRAM -1

—— : +B SIGNAL LINE　　– – : +B SIGNAL LINE　　⇨ : CD SIGNAL LINE

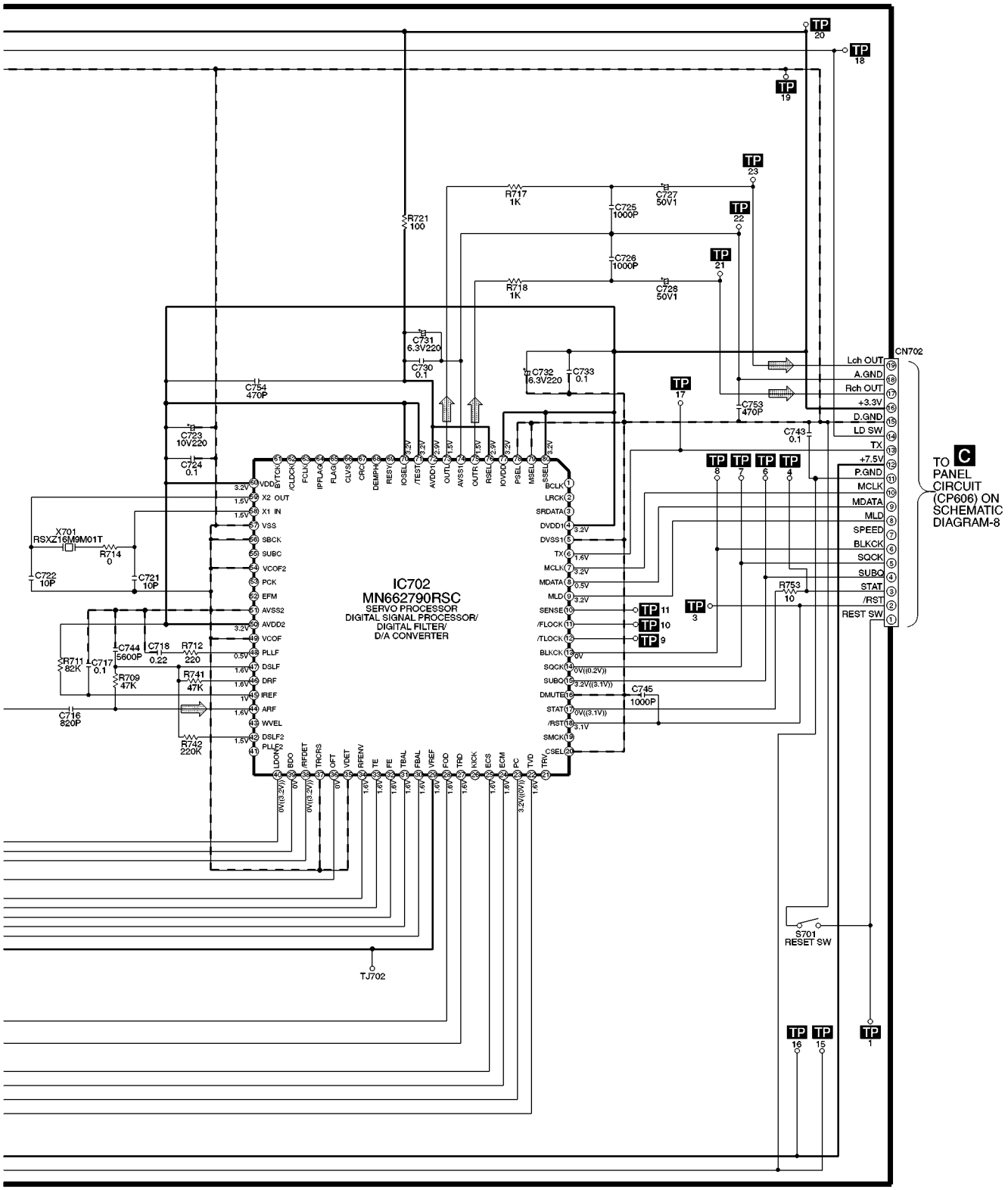
## A CD SERVO CIRCUIT



# SCHEMATIC DIAGRAM - 2

—— : +B SIGNAL LINE  – – : +B SIGNAL LINE  ⇨ : CD SIGNAL LINE

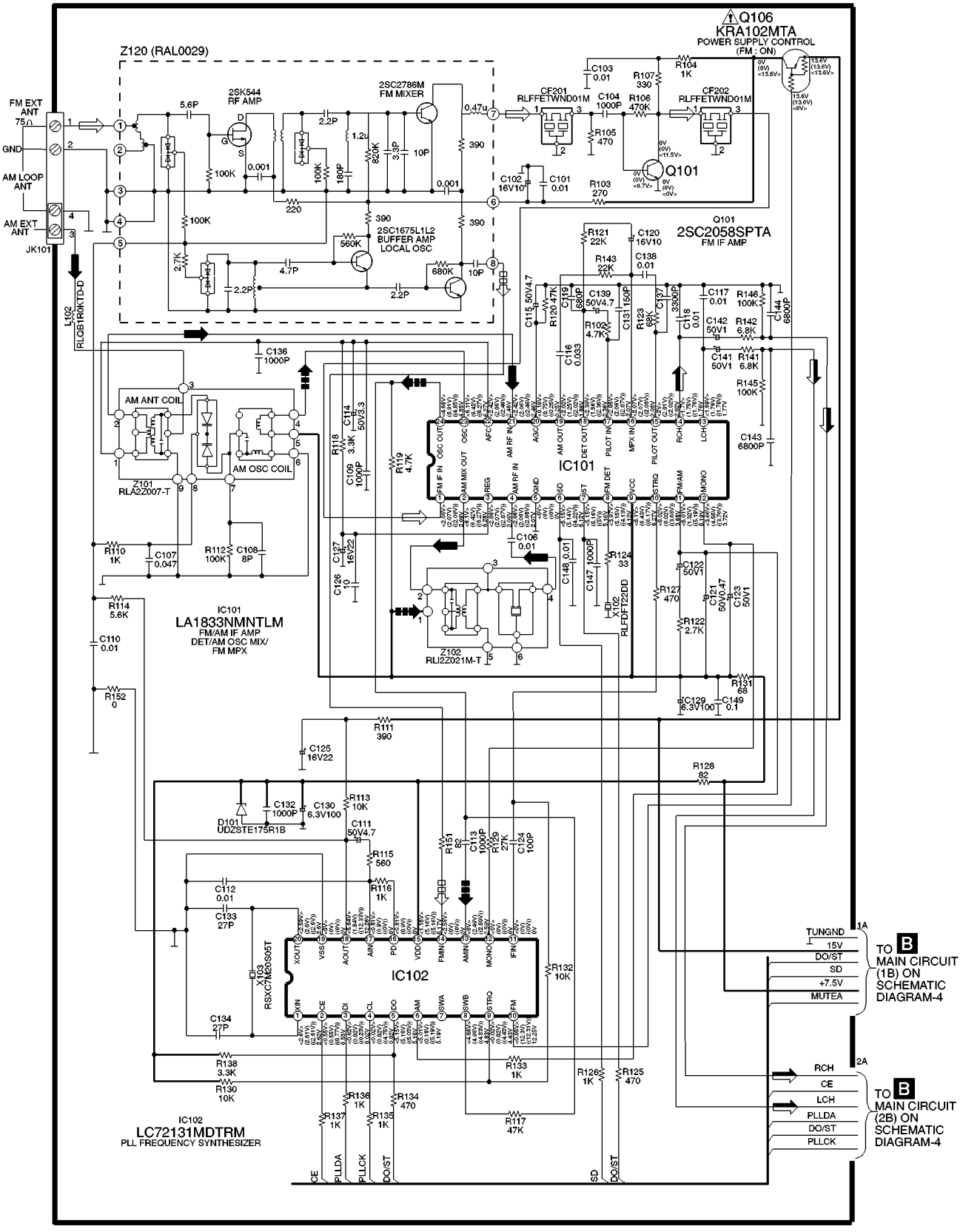
## A CD SERVO CIRCUIT



# SCHEMATIC DIAGRAM - 3

: +B SIGNAL LINE : FM SIGNAL LINE : AM SIGNAL LINE
: FM/AM SIGNAL LINE : FM OSC SIGNAL LINE : AM OSC SIGNAL LINE

## B TUNER CIRCUIT



# SCHEMATIC DIAGRAM - 4

: +B SIGNAL LINE
: +B SIGNAL LINE
: FM/AM SIGNAL LINE
: MAIN SIGNAL LINE
: AUX SIGNAL LINE
: CD SIGNAL LINE
: RECORD SIGNAL LINE

## B MAIN CIRCUIT

TO C PANEL CIRCUIT (CP605) ON SCHEMATIC DIAGRAM-8

CP503

IC301
TC4052BFNELM
CMOS SWITCH

IC302
BH3874AKS2
AUDIO SOUND PROCESSOR

IC305
BU2090AF-E2
I/O EXPANDER

TO B TUNER CIRCUIT (2A) ON SCHEMATIC DIAGRAM-3

TO B TUNER CIRCUIT (1A) ON SCHEMATIC DIAGRAM-3

TO K DECK CIRCUIT (H1001/ W1001) ON SCHEMATIC DIAGRAM-10

TO G CD LOADING CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-12

Q304
2SB621ARSTA
SUPPLY SWITCH
(CD PLUNGER)

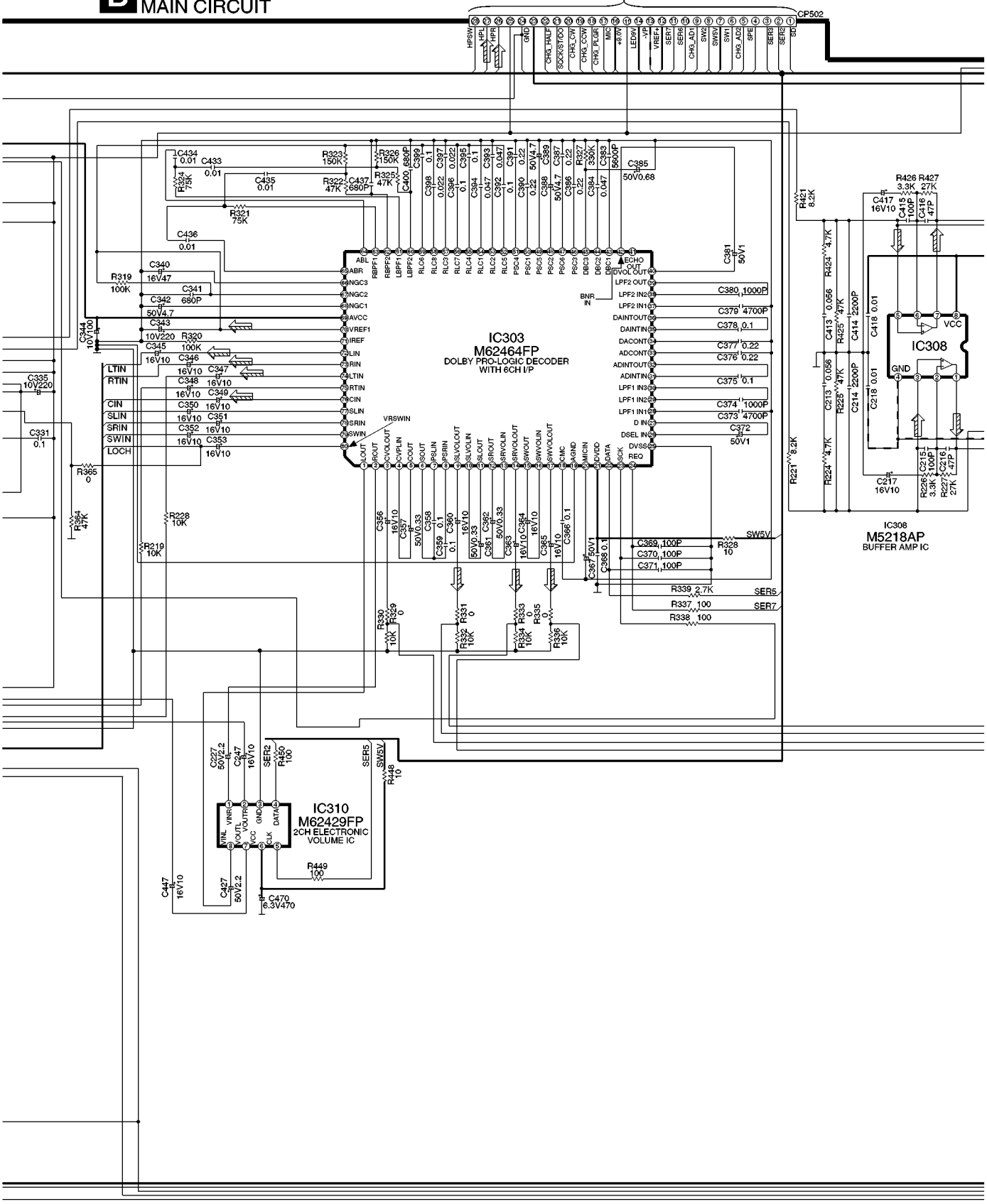
Q305
KRC102STA
SWITCH FOR PLUNGER

# SCHEMATIC DIAGRAM - 5

—— : +B SIGNAL LINE
– – : +B SIGNAL LINE
⇒ : MAIN SIGNAL LINE

**B** MAIN CIRCUIT

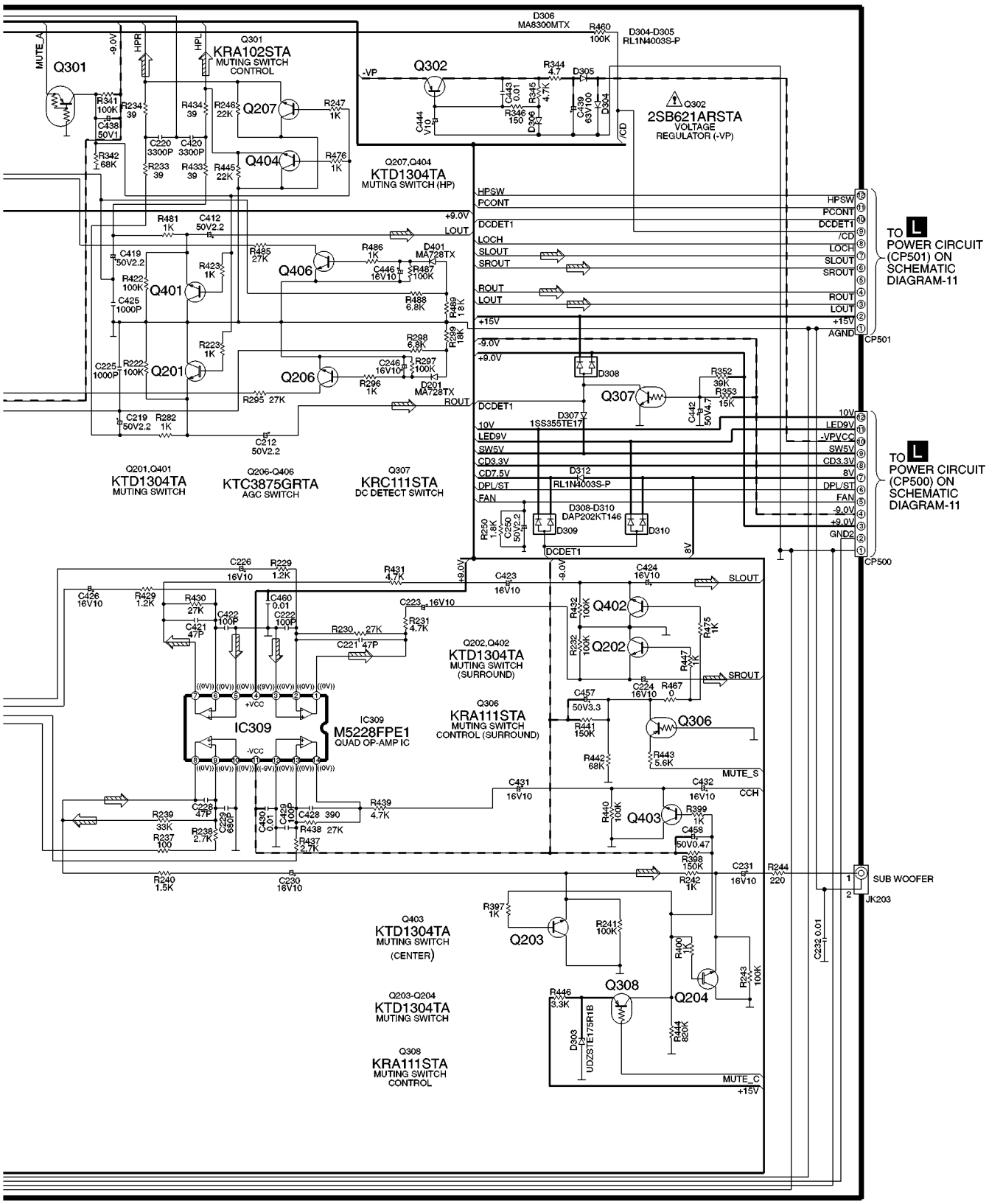
TO **C**
PANEL CIRCUIT (CP607) ON
SCHEMATIC DIAGRAM-8



# SCHEMATIC DIAGRAM - 6

—— : +B SIGNAL LINE  ⇨ : MAIN SIGNAL LINE
– – : +B SIGNAL LINE

## B MAIN CIRCUIT



# SCHEMATIC DIAGRAM - 7

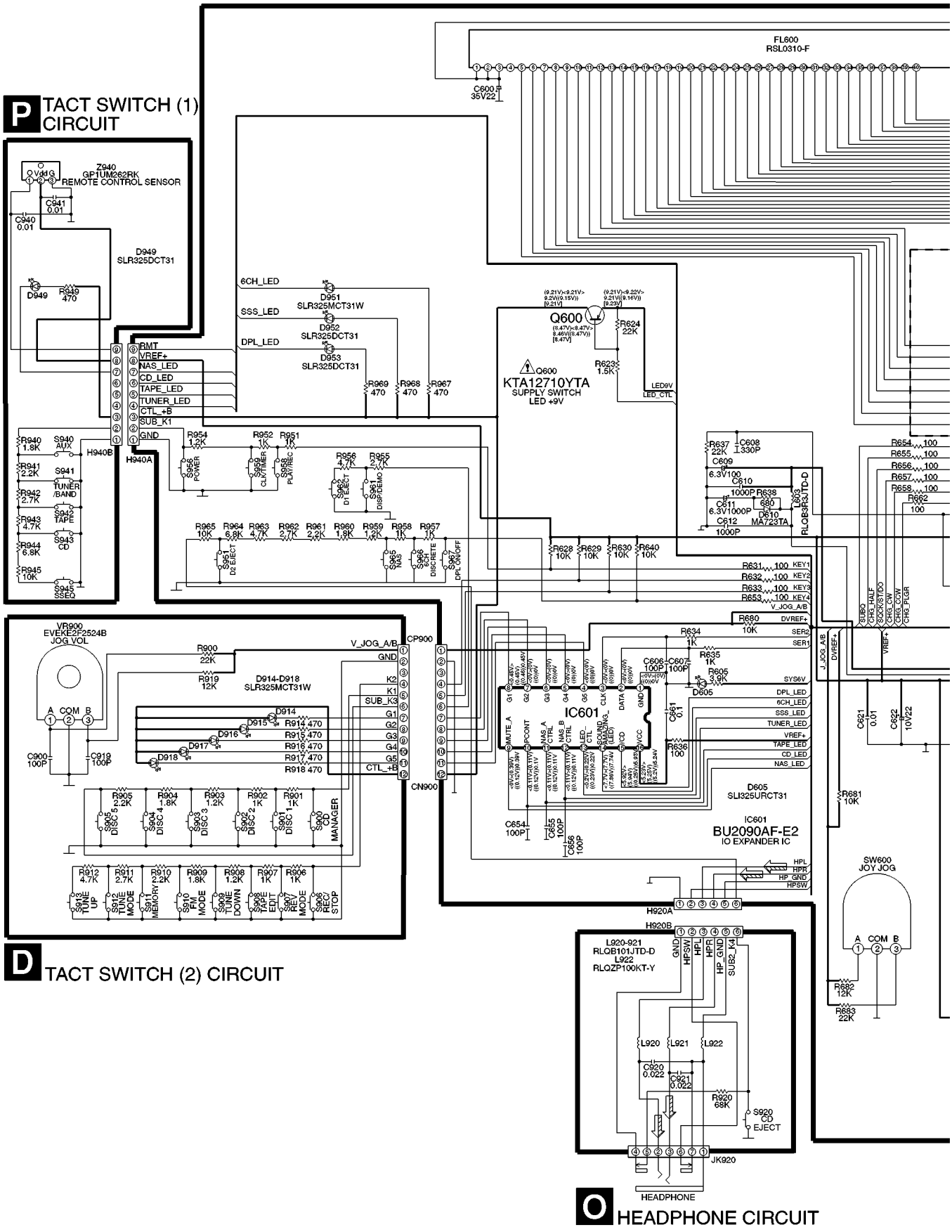
—— : +B SIGNAL LINE  ⇨ : MAIN SIGNAL LINE  ⇨ : CD SIGNAL LINE

## C PANEL CIRCUIT

## P TACT SWITCH (1) CIRCUIT

## D TACT SWITCH (2) CIRCUIT

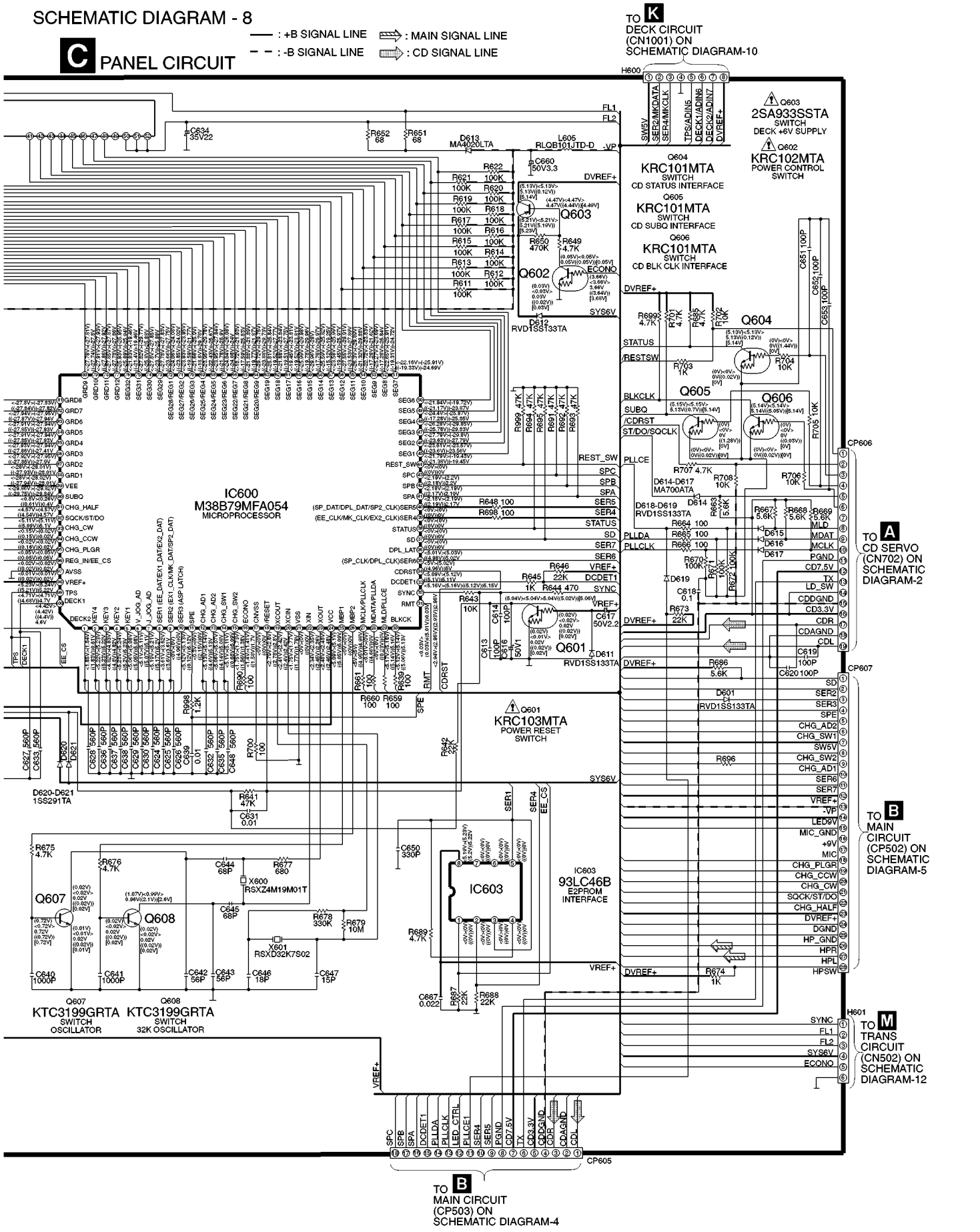
## O HEADPHONE CIRCUIT



# SCHEMATIC DIAGRAM - 8

## C PANEL CIRCUIT

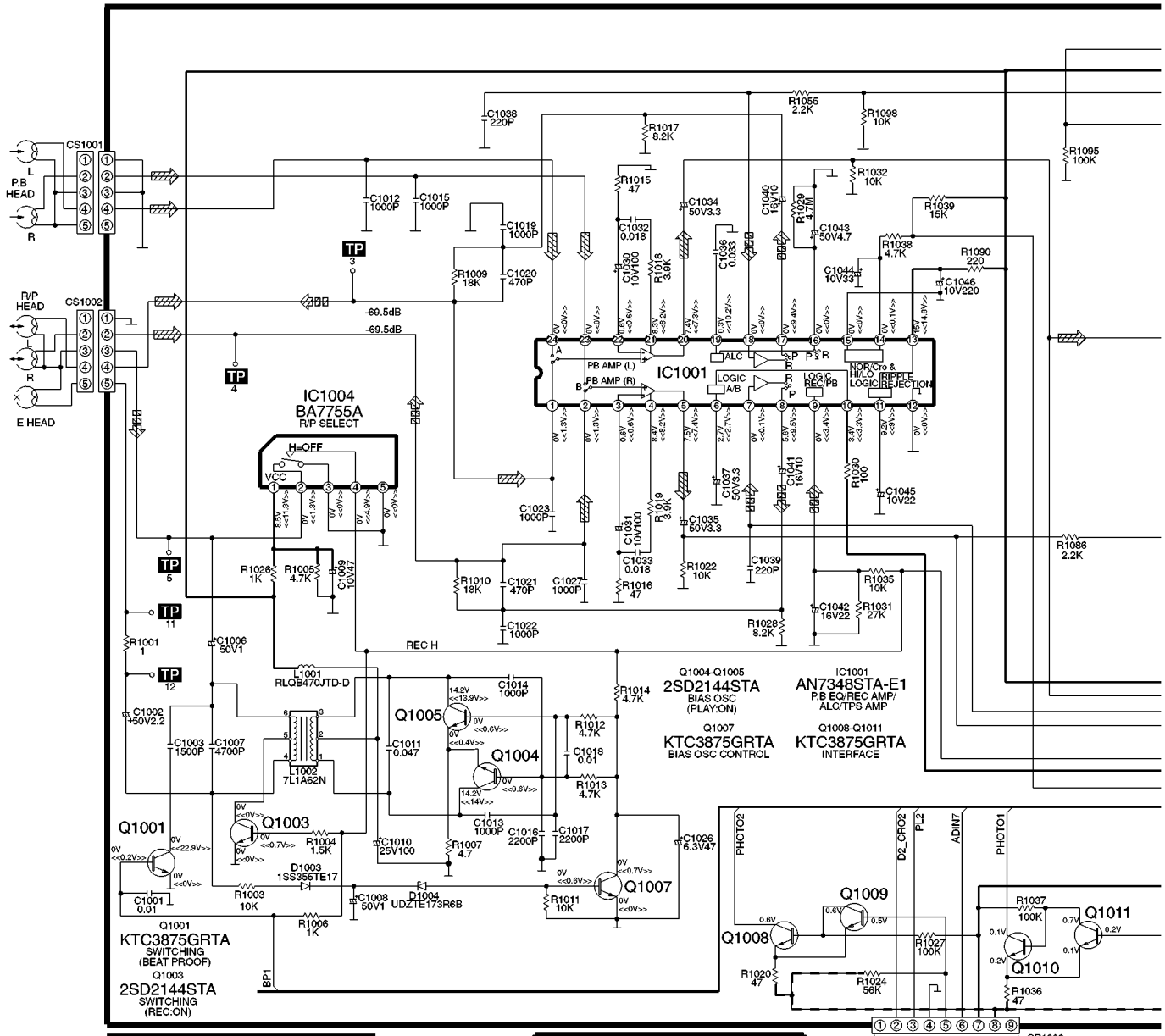
—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE
⇨ : CD SIGNAL LINE

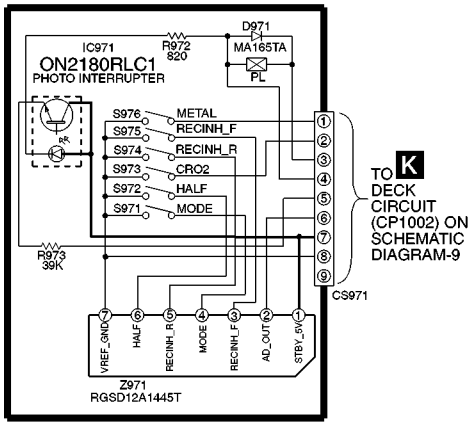

TO K DECK CIRCUIT (CN1001) ON SCHEMATIC DIAGRAM-10
H600
Q603 2SA933SSTA SWITCH DECK +6V SUPPLY
Q602 KRC102MTA POWER CONTROL SWITCH
Q604 KRC101MTA SWITCH CD STATUS INTERFACE
Q605 KRC101MTA SWITCH CD SUBQ INTERFACE
Q606 KRC101MTA SWITCH CD BLK CLK INTERFACE
IC600 M38B79MFA054 MICROPROCESSOR
Q601 KRC103MTA POWER RESET SWITCH
IC603 93LC46B E2PROM INTERFACE
Q607 KTC3199GRTA SWITCH OSCILLATOR
Q608 KTC3199GRTA SWITCH 32K OSCILLATOR
X600 RSXZ4M19M01T
X601 RSXD32K7S02
D612 RVD1SS133TA
D611 RVD1SS133TA
D601 RVD1SS133TA
D614-D617 MA700ATA
D618-D619 RVD1SS133TA
D620-D621 1SS291TA
CP606
CP607
CP605
TO A CD SERVO (CN702) ON SCHEMATIC DIAGRAM-2
TO B MAIN CIRCUIT (CP502) ON SCHEMATIC DIAGRAM-5
TO M TRANS CIRCUIT (CN502) ON SCHEMATIC DIAGRAM-12
TO B MAIN CIRCUIT (CP503) ON SCHEMATIC DIAGRAM-4

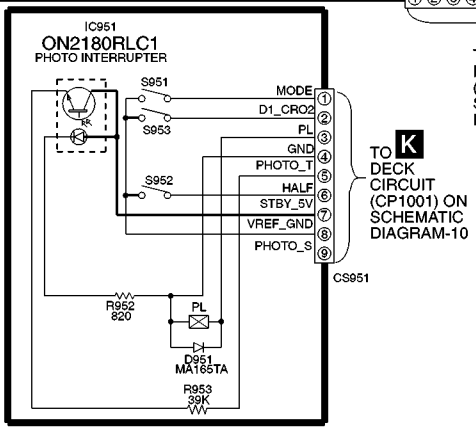
# SCHEMATIC DIAGRAM - 9

—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
: PLAYBACK SIGNAL LINE
: RECORD SIGNAL LINE

## K DECK CIRCUIT



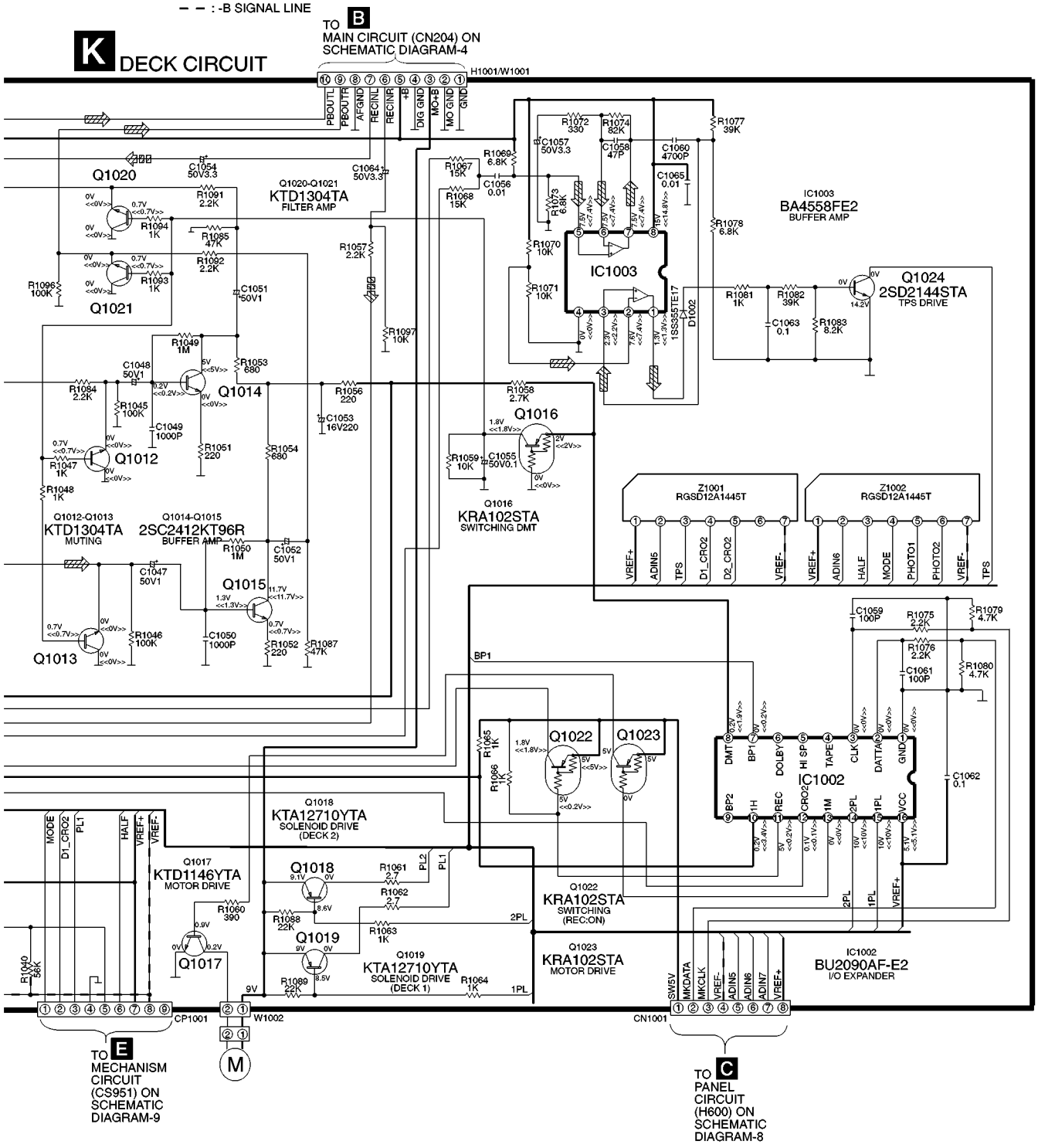

**F** MECHANISM CIRCUIT (DECK 2)

**E** MECHANISM CIRCUIT (DECK 1)

# SCHEMATIC DIAGRAM - 10

—— : +B SIGNAL LINE  ▨ : PLAYBACK SIGNAL LINE  ▨ : RECORD SIGNAL LINE

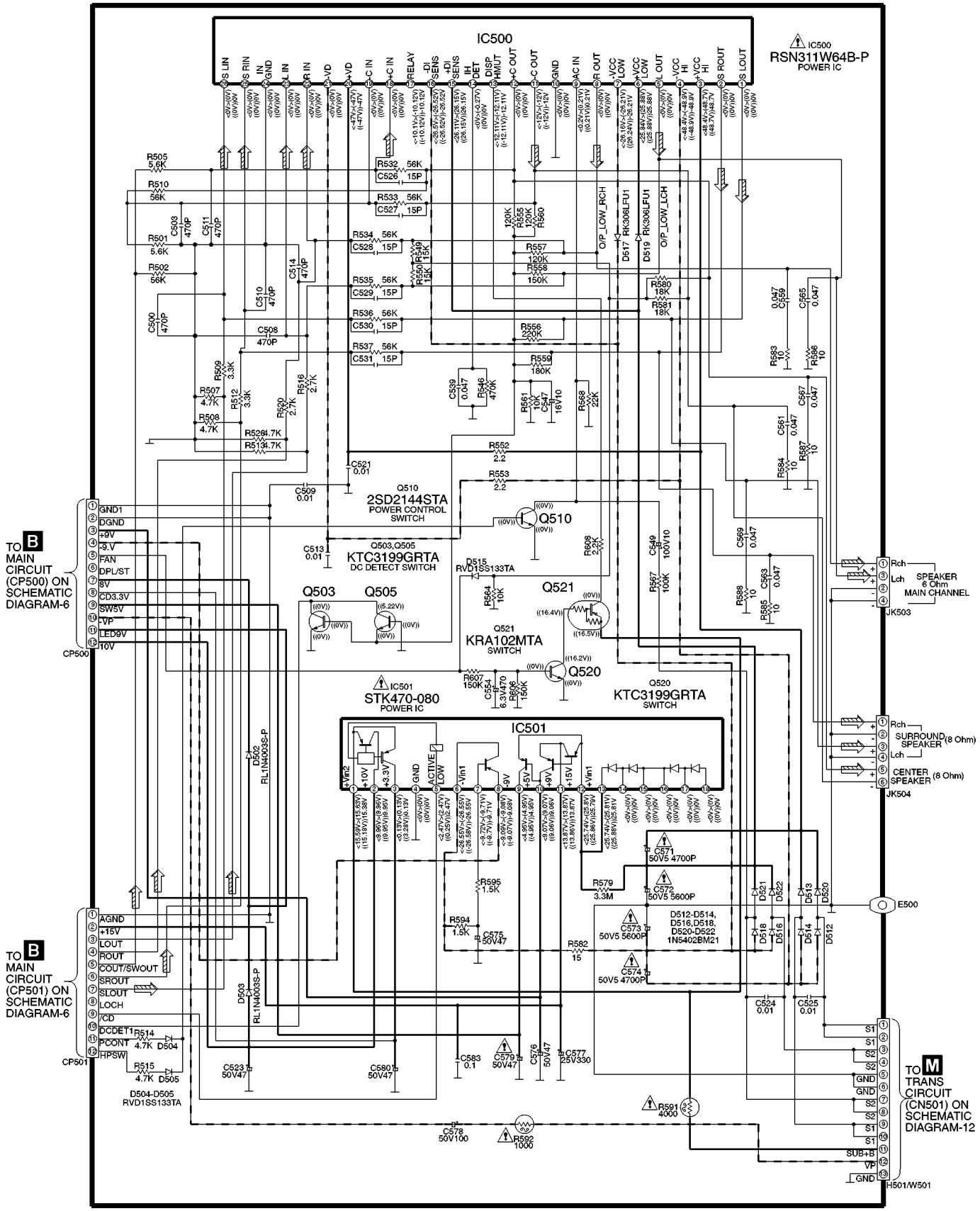
– – : -B SIGNAL LINE



# SCHEMATIC DIAGRAM - 11

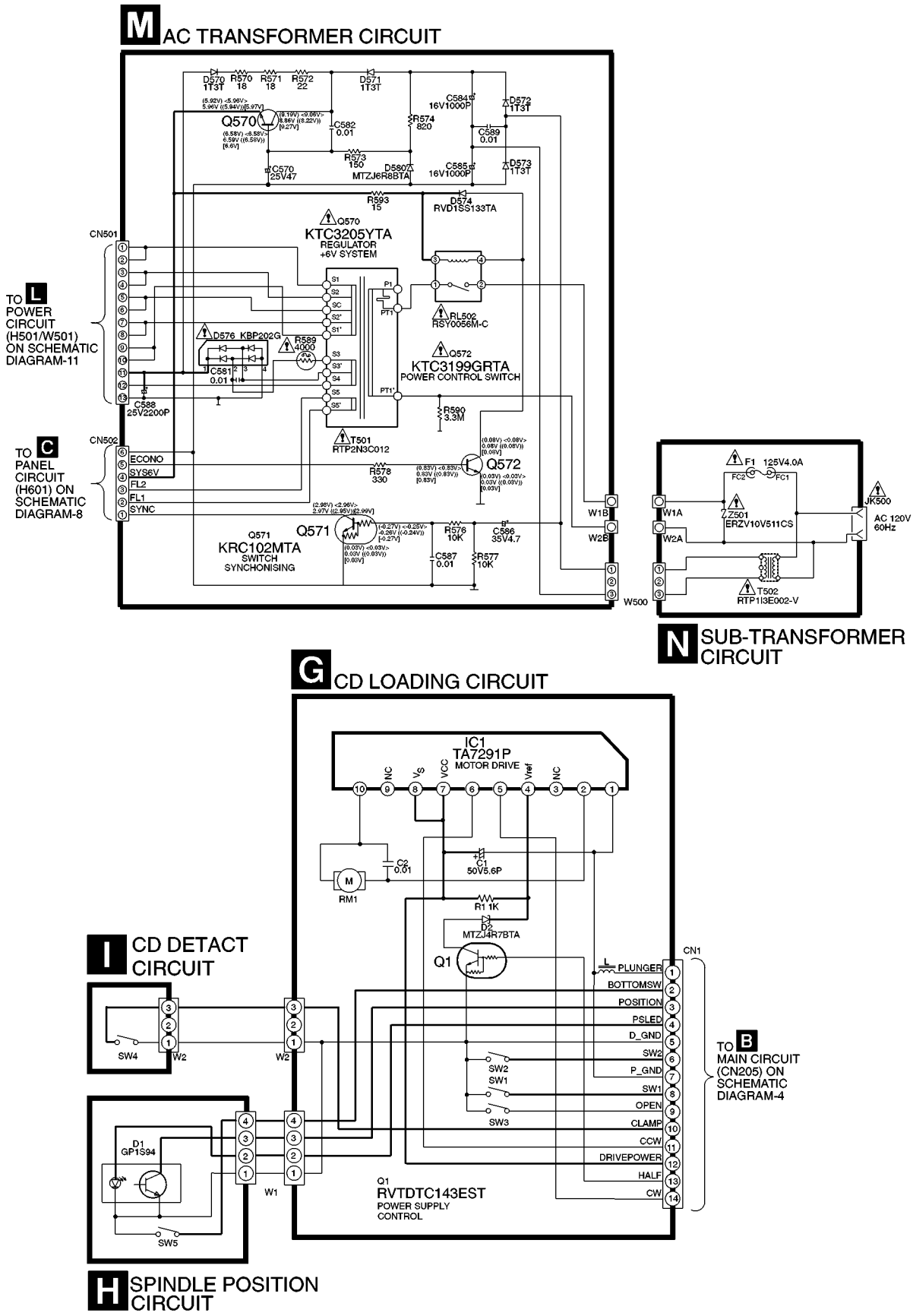
—— : +B SIGNAL LINE  – – : -B SIGNAL LINE  ⇒ : MAIN SIGNAL LINE

## L POWER CIRCUIT



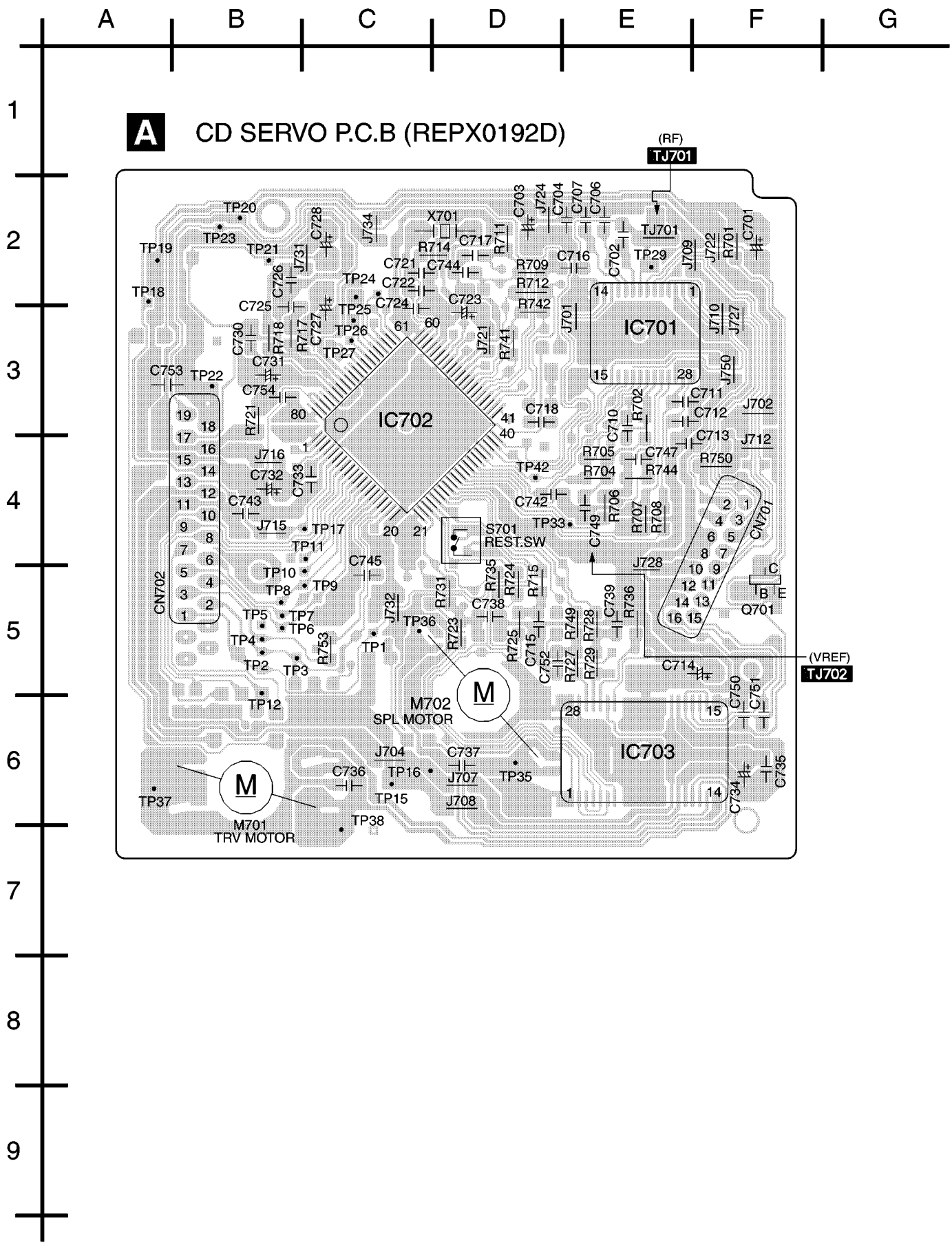
SCHEMATIC DIAGRAM -12

—— : +B SIGNAL LINE

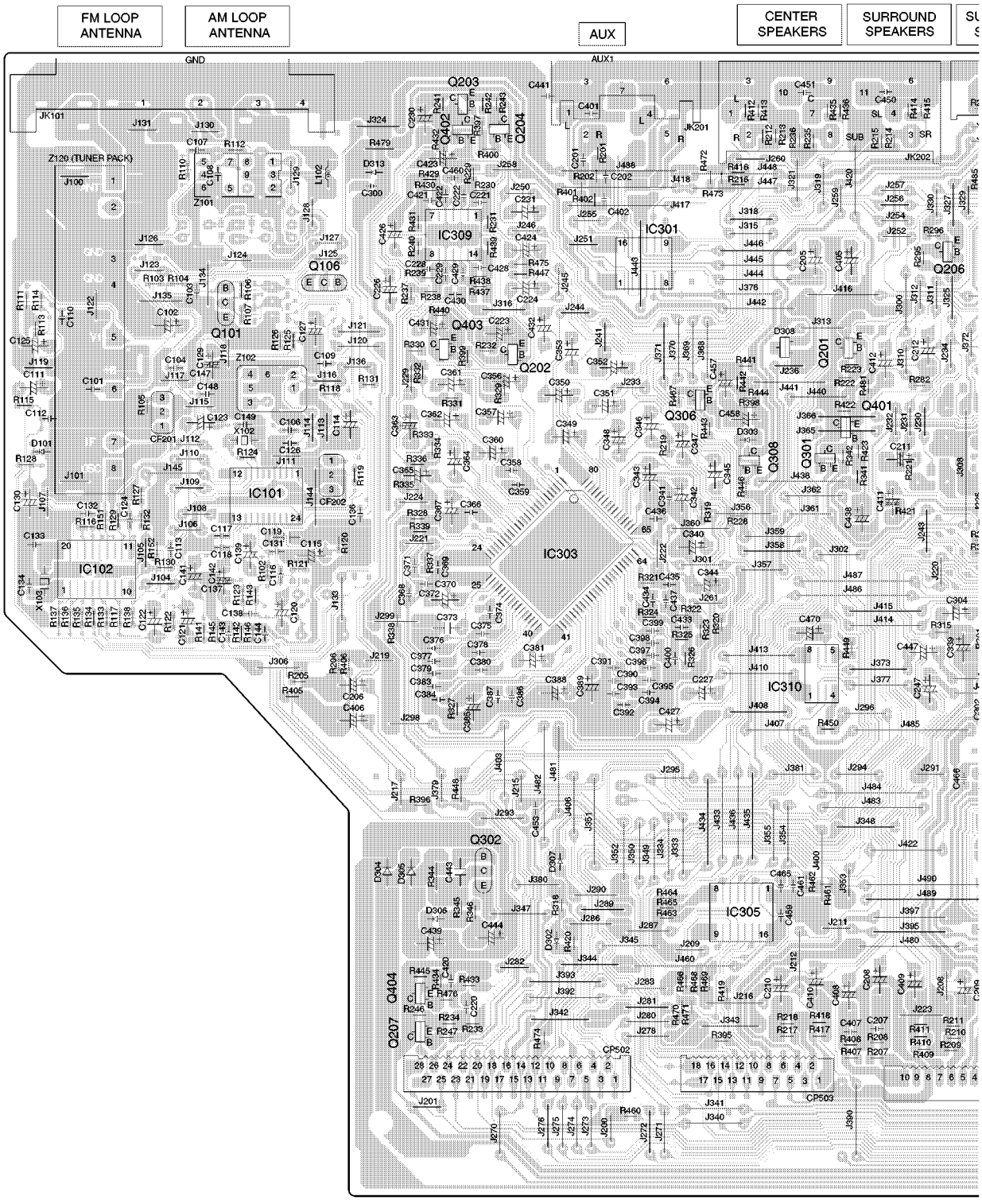


# 17 Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

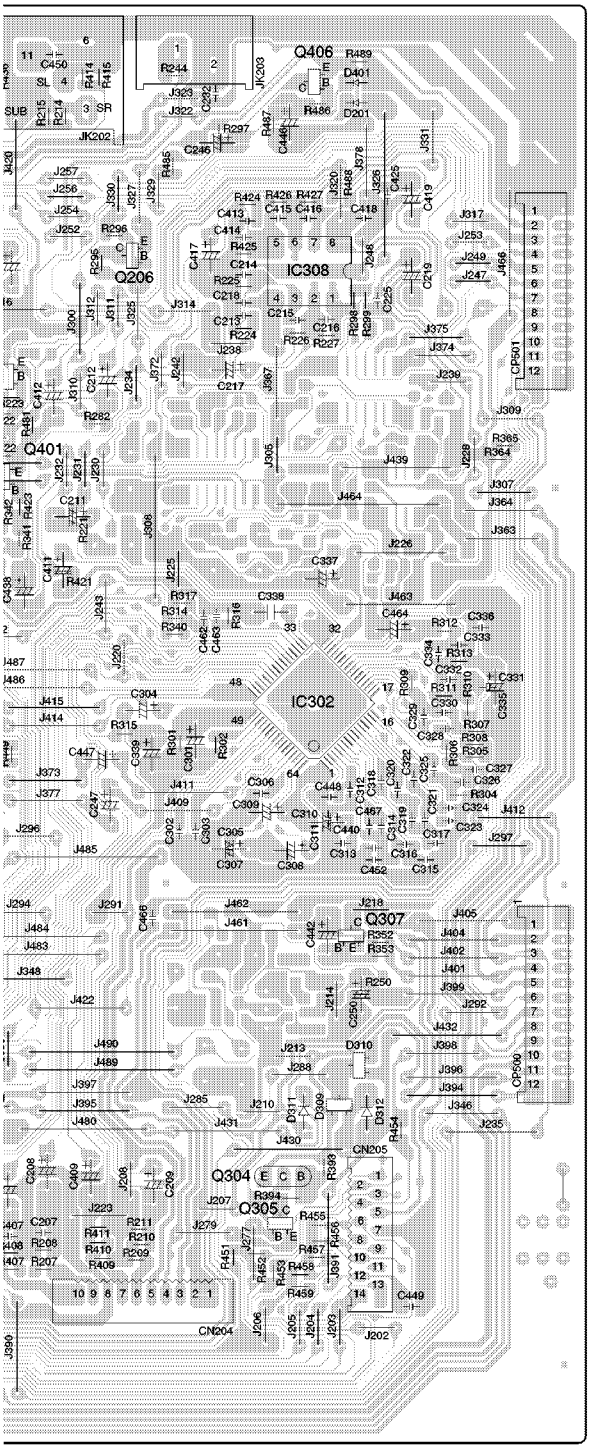


# B MAIN / TUNER P.C.B. (REPX0243A)

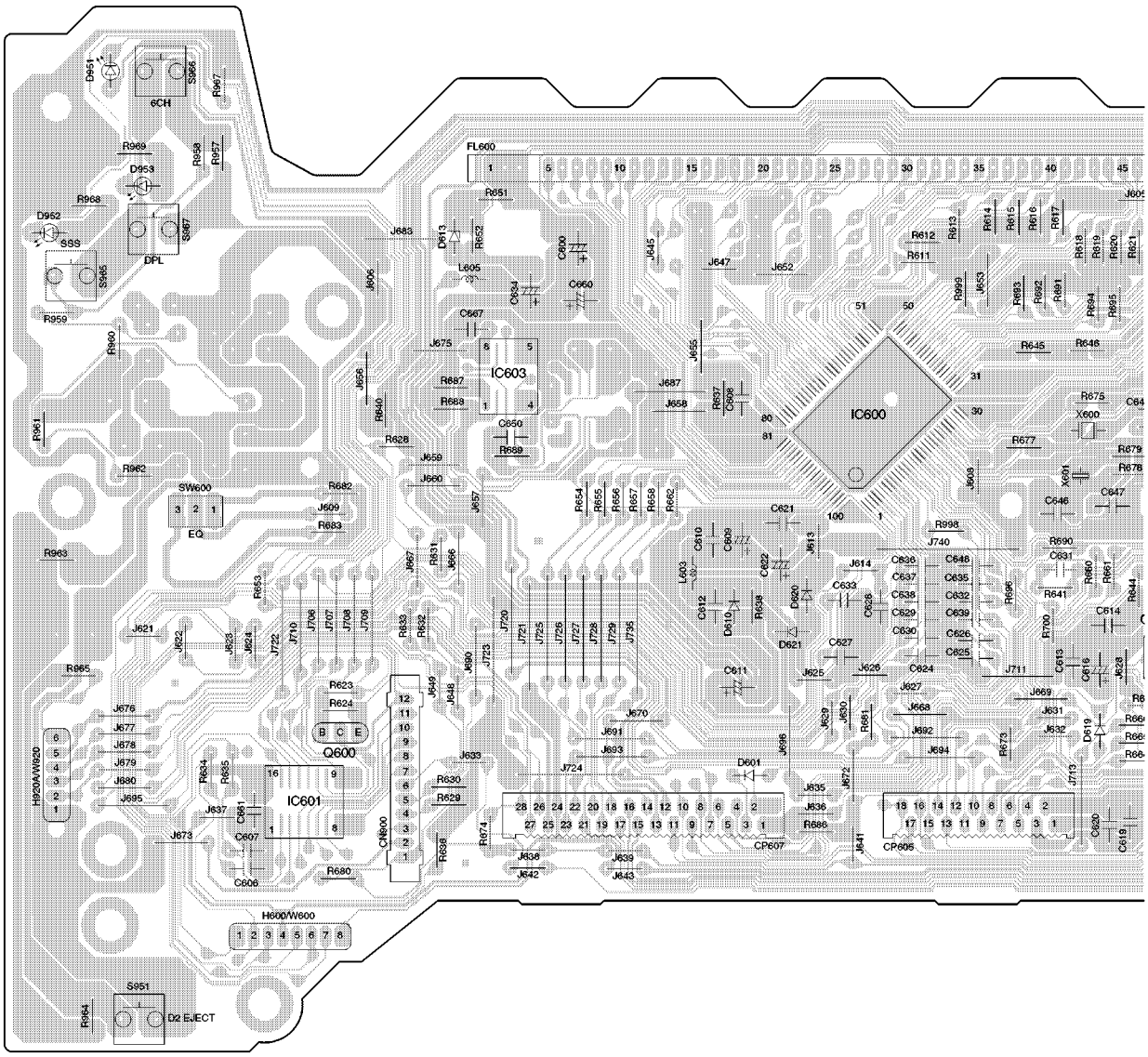


G H I J K L M

SURROUND SPEAKERS | SUB-WOOFER SPEAKERS

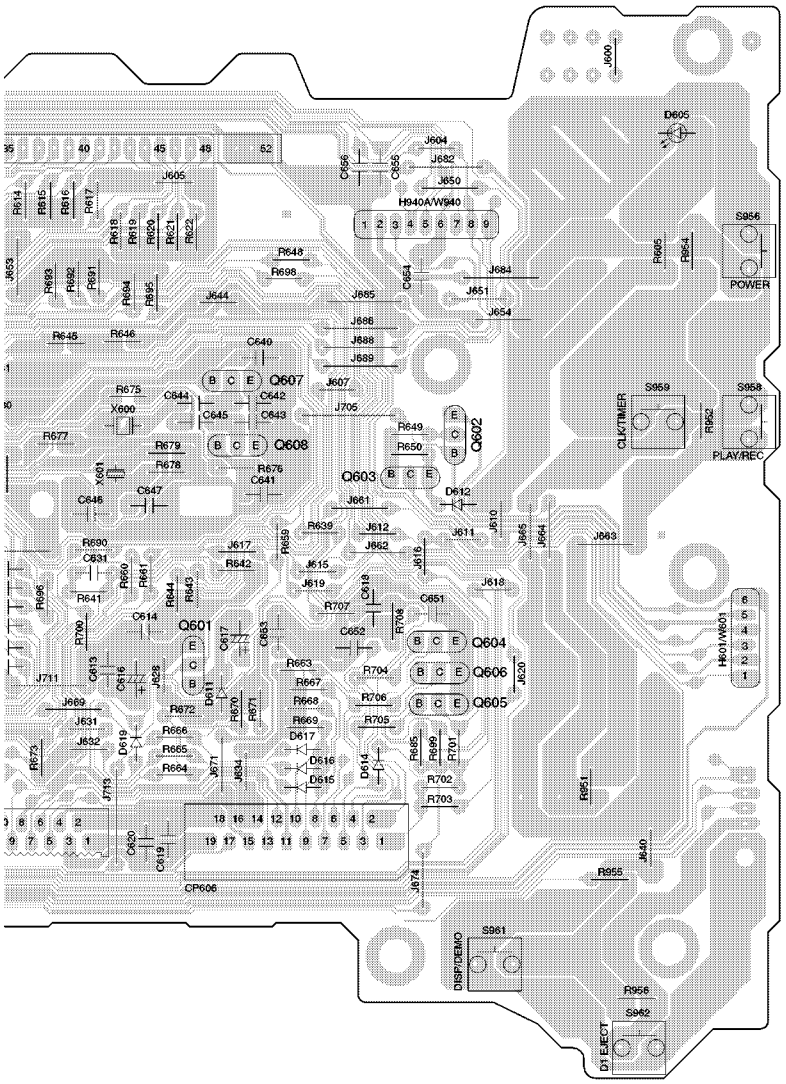


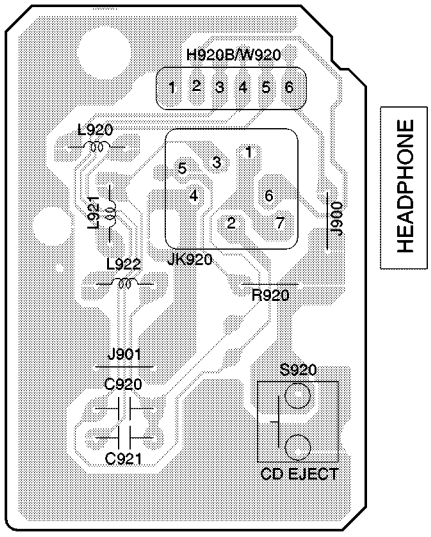
# C PANEL P.C.B. (REPX0244A)



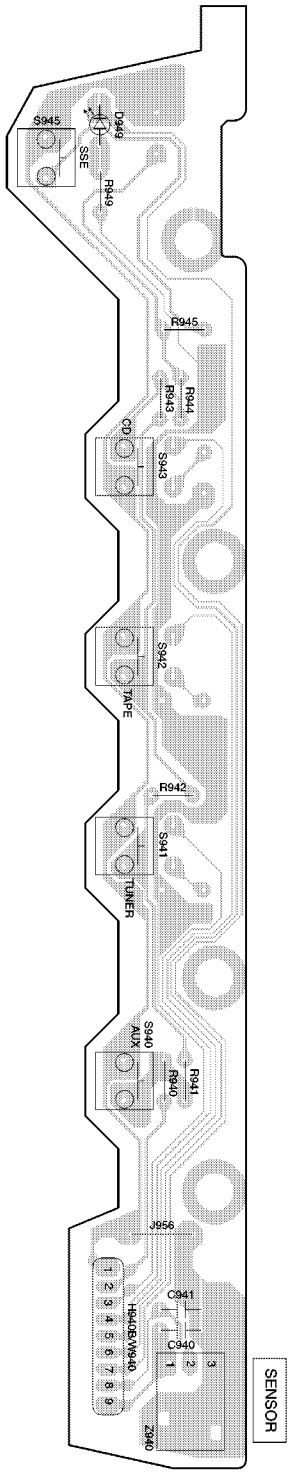
G H I J K L M

## O HEADPHONE P.C.B. (REPX0244A)

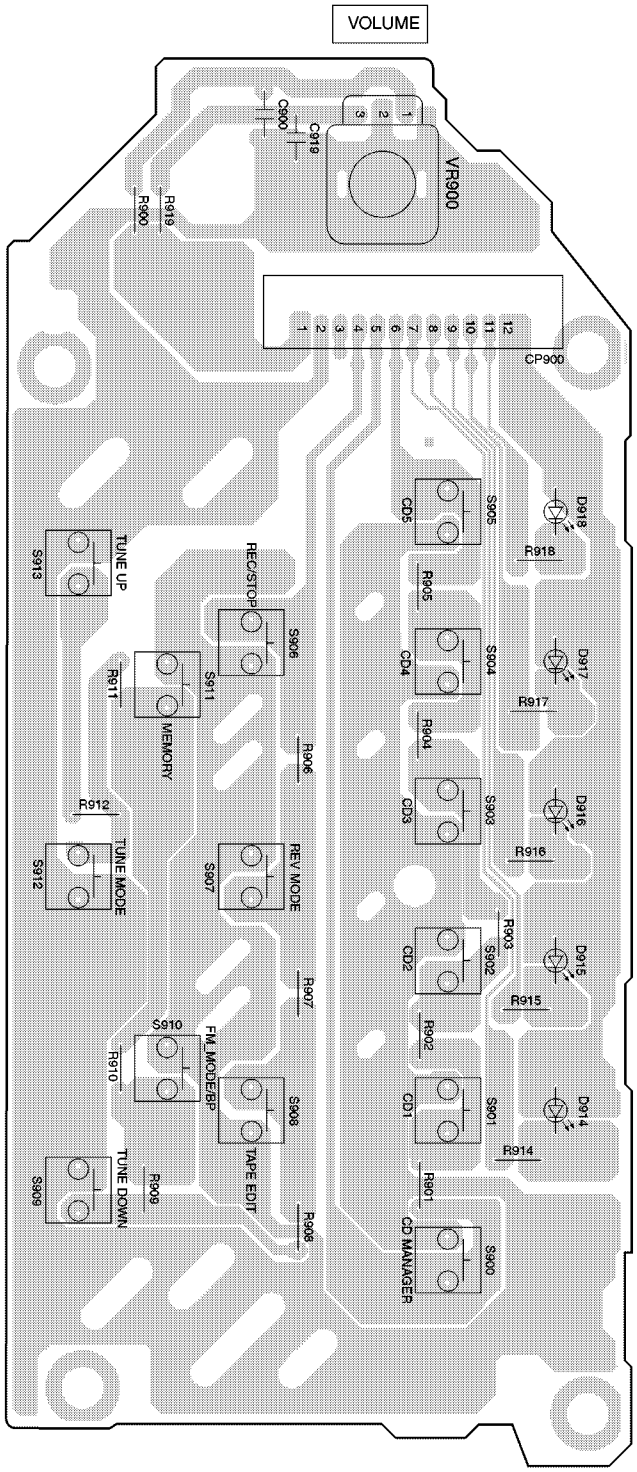


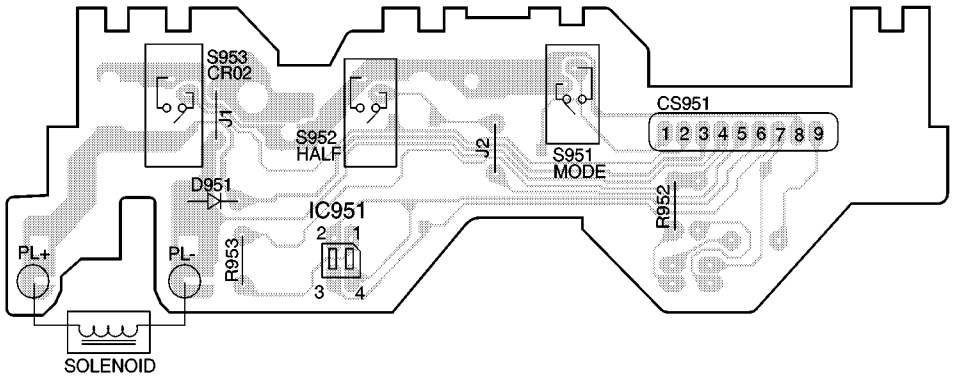
## P TACT SWITCH (1) P.C.B. (REPX0244A)



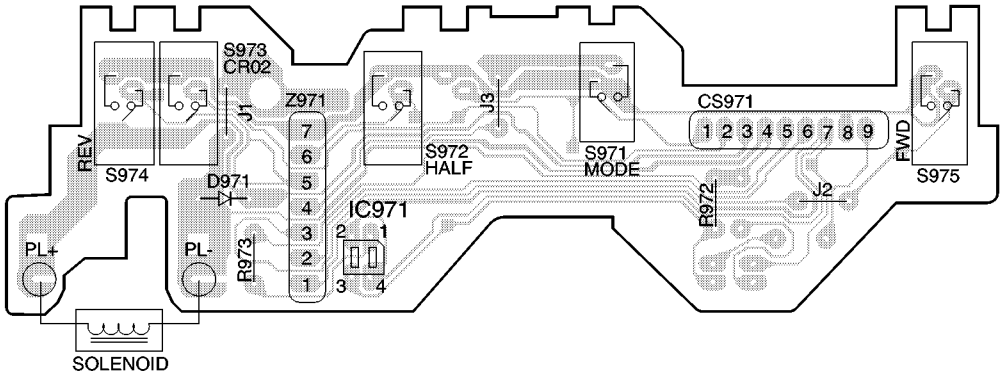

## D TACT SWITCH (2) P.C.B. (REPX0244A)



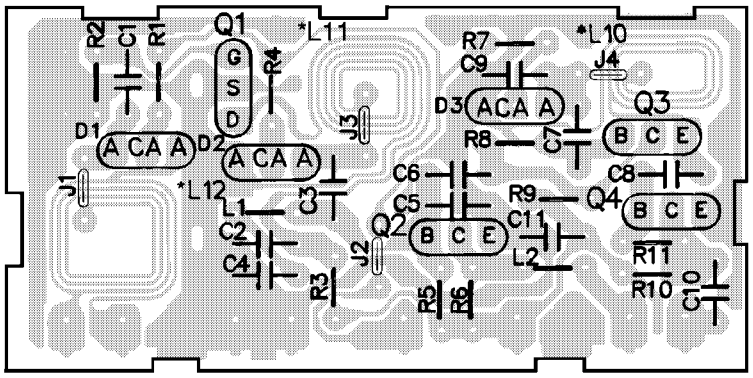
## E MECHANISM (DECK1) P.C.B (REPX0108H)



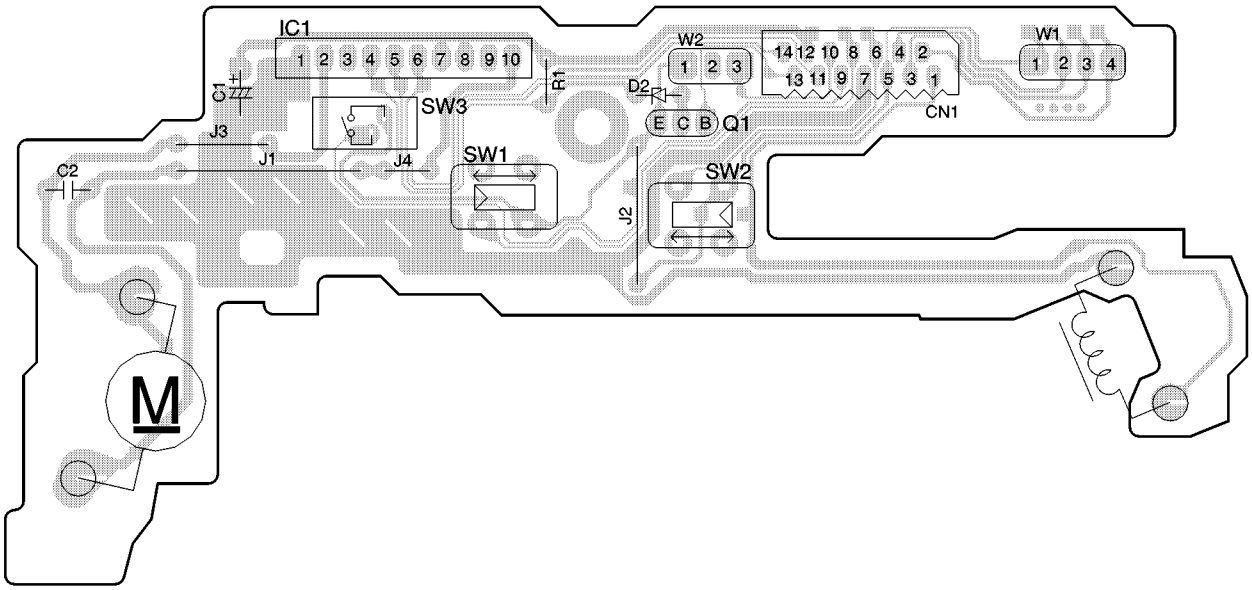

## F MECHANISM (DECK2) P.C.B (REPX0108F)



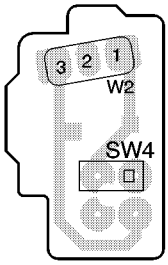

## J TUNER PACK P.C.B (REP1999B)



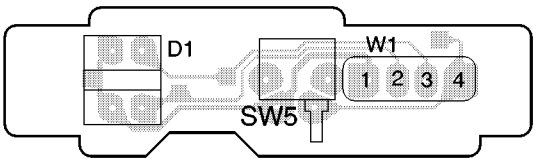
## G CD LOADING P.C.B (REP2578A-N)



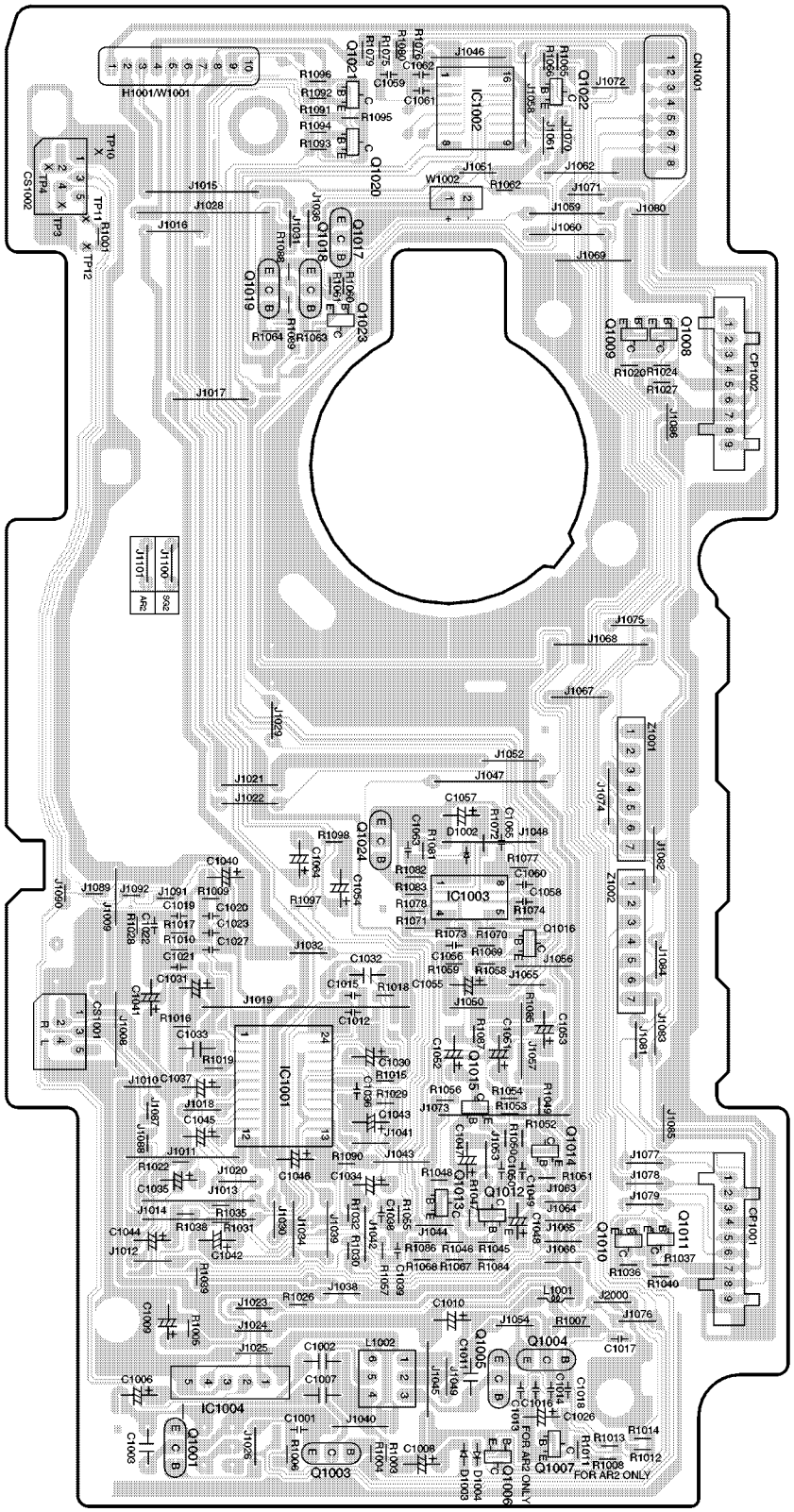

## I CD DETACT P.C.B (REP2578A-N)



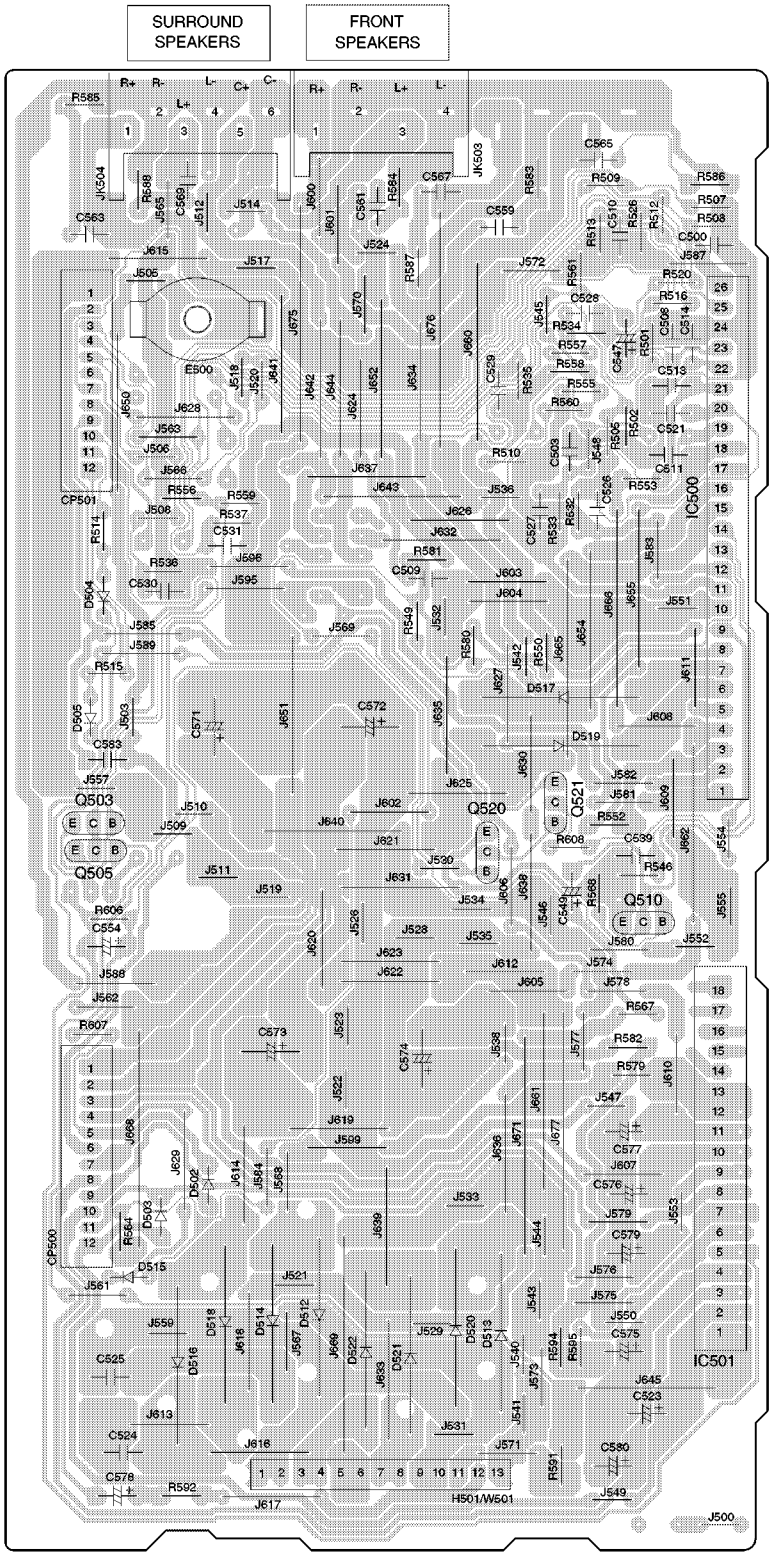

## H SPINDLE POSITION P.C.B (REP2578A-N)



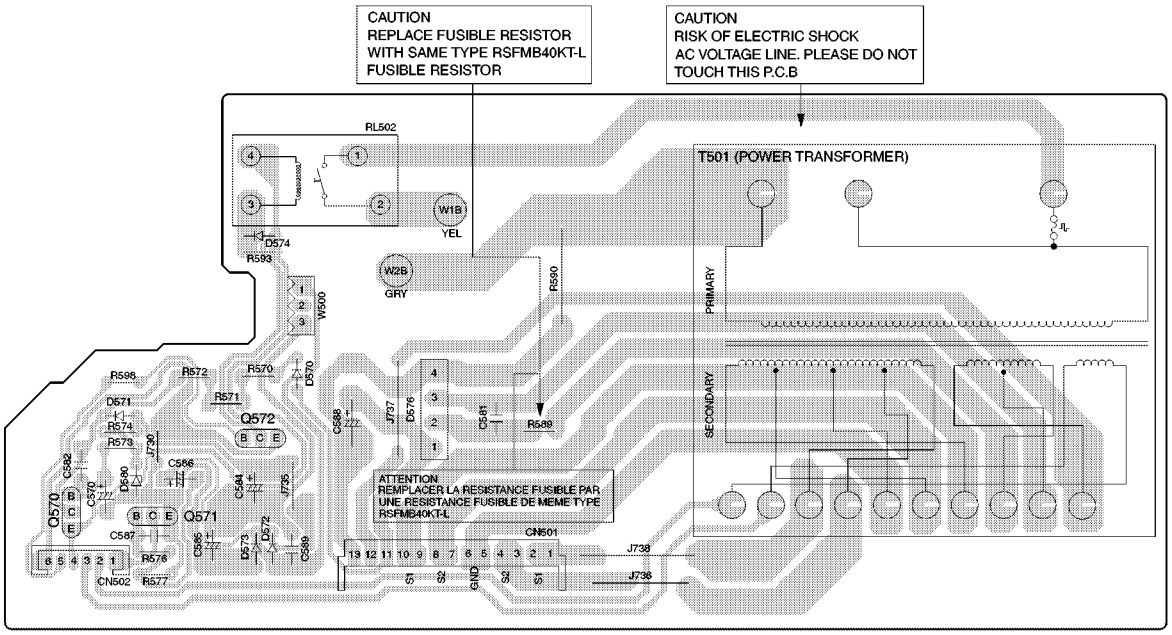
## K DECK P.C.B. (REPX0198B)



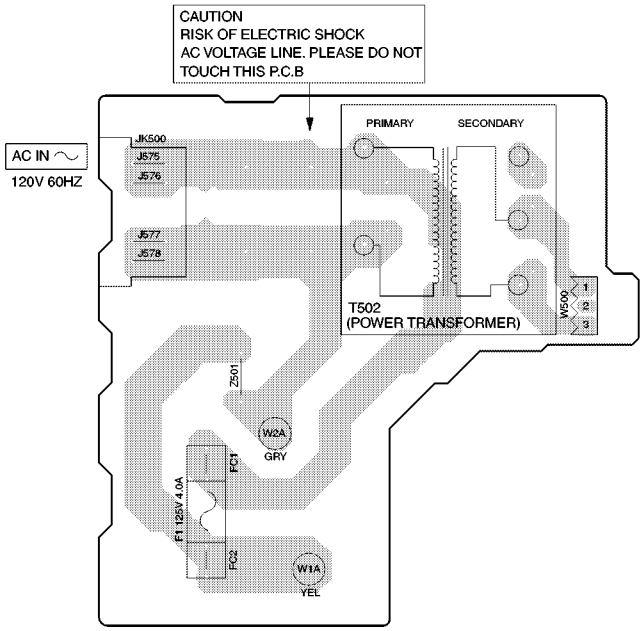
# L POWER P.C.B. (REPX0245A)



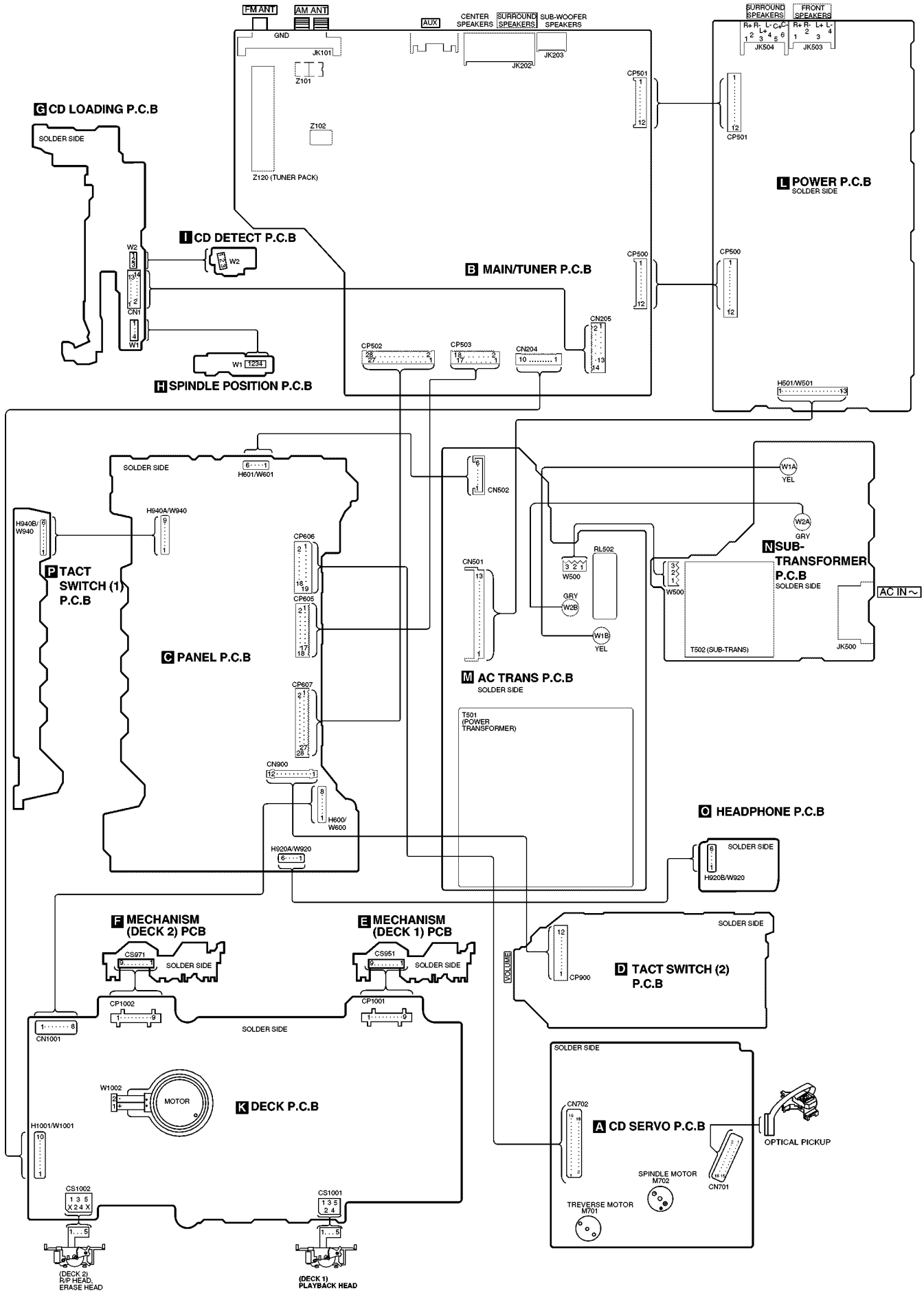
## M AC TRANSFORMER P.C.B. (REPX0262A)



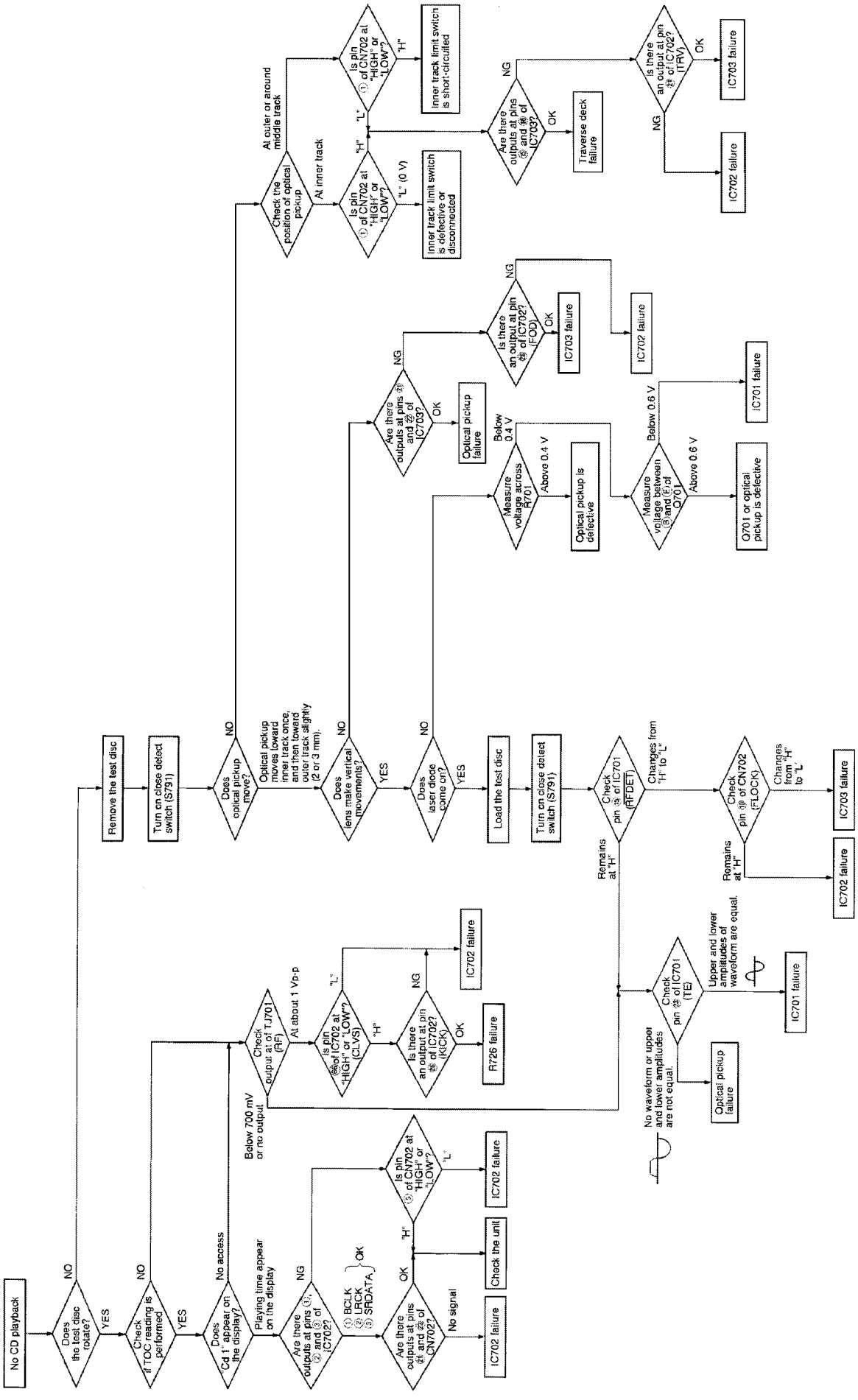

## N SUB-TRANSFORMER P.C.B. (REPX0262A)



# 18 Wiring Connection Diagram



# 19 Troubleshooting Guide



# 20 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

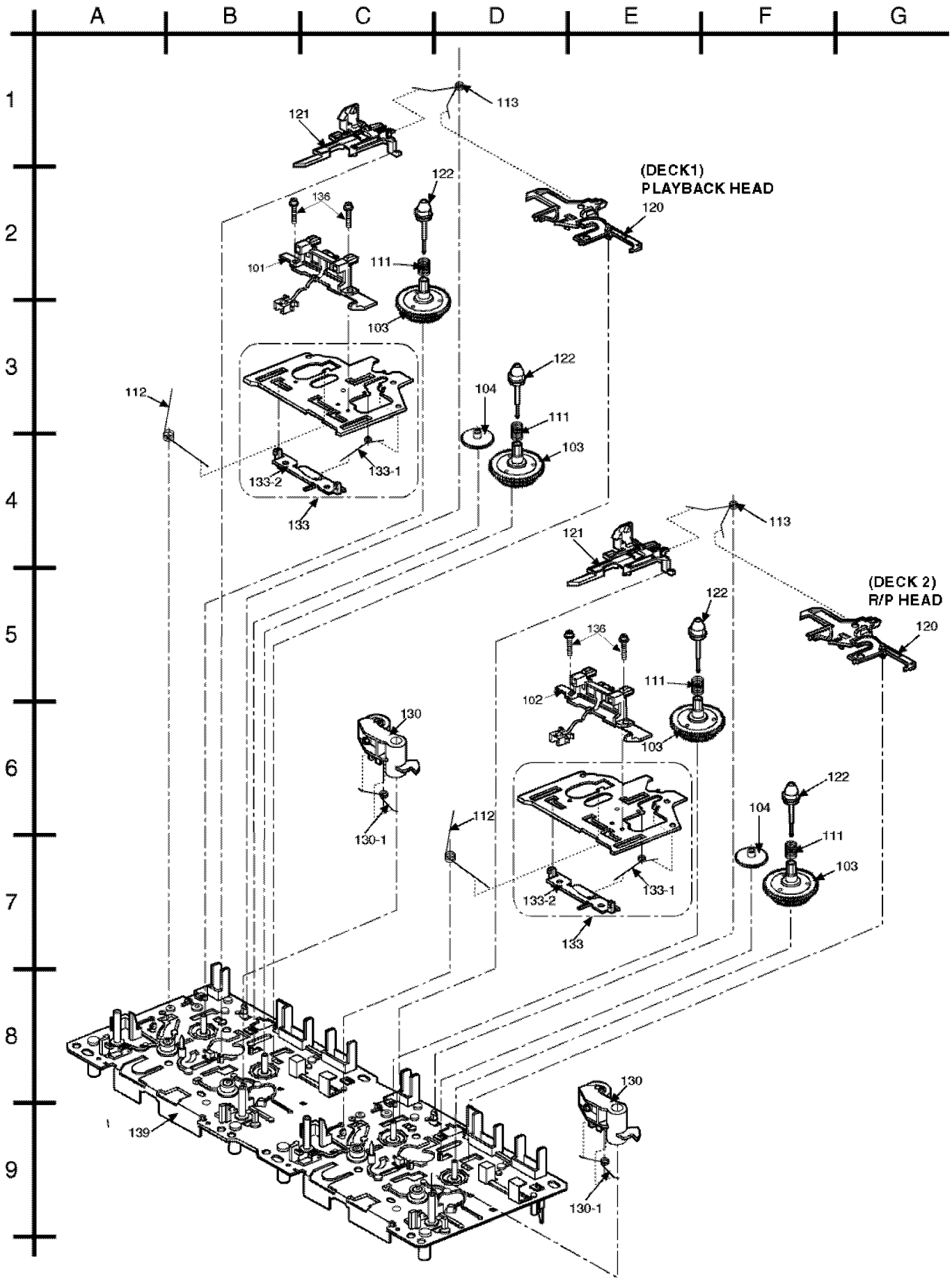
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to teh cover page for area or colour)

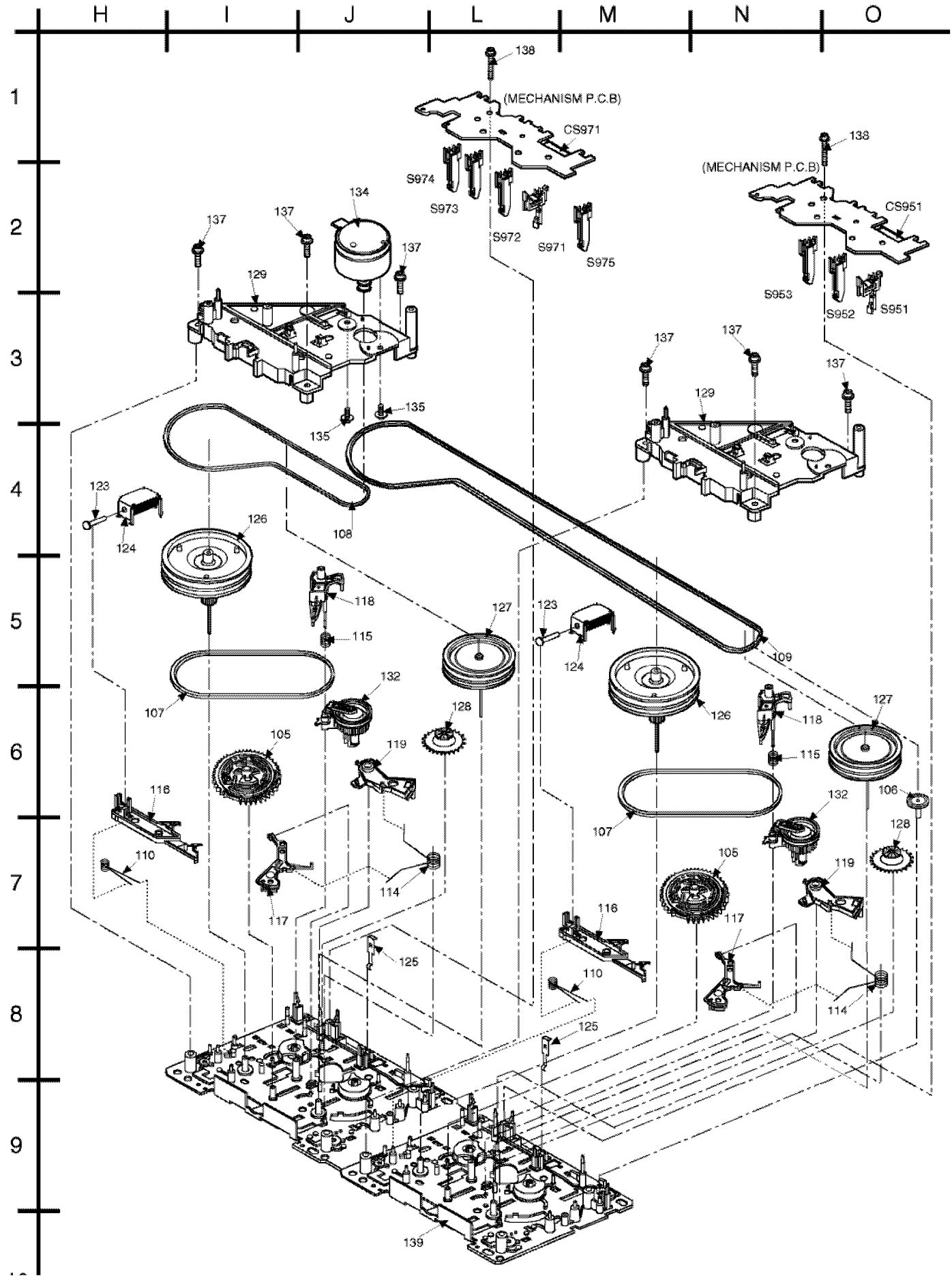
  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".
- Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**
- The "(SF)" mark denotes the standard part.
- Remote Control Unit: Supply period for three years from terminal of production.
- Reference for O/I book languages are as follows:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Ar : | Arabic | Du : | Dutch | It : | Italian | Sp : | Spanish |
| Cf : | Canadian French | En : | English | Ko : | Korean | Sw : | Swedish |
| Cz : | Czech | Fr : | French | Po : | Polish | Co : | Traditional Chinese |
| Da : | Danish | Ge : | German | Ru : | Russian | Cn : | Simplified Chinese |

# 20.1. Deck Mechanism (RAA4501-S)

## 20.1.1. Deck Mechanism Parts Location

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S974
S973
S972
S971
S975
(MECHANISM P.C.B)
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S952
S951
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125
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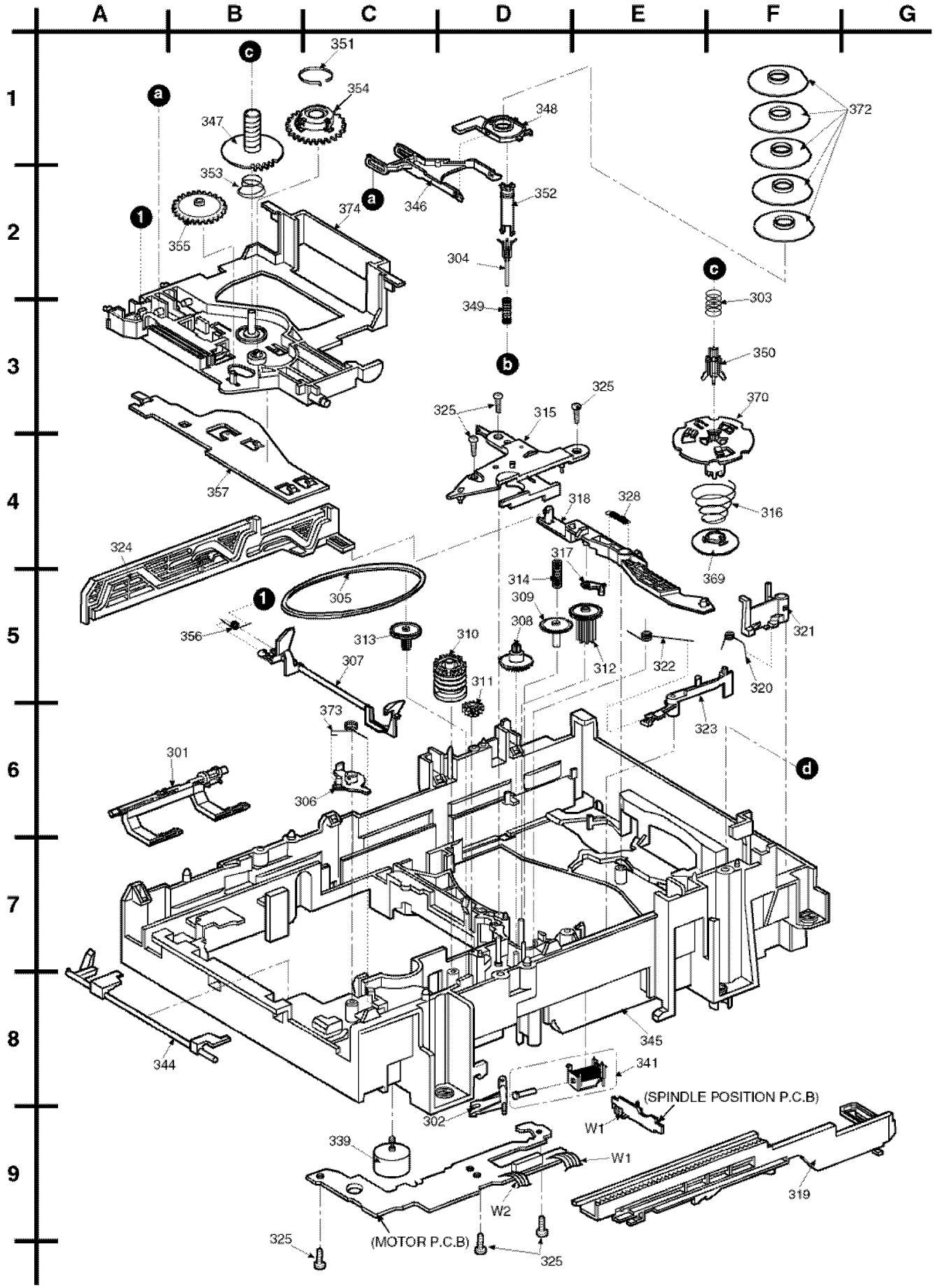
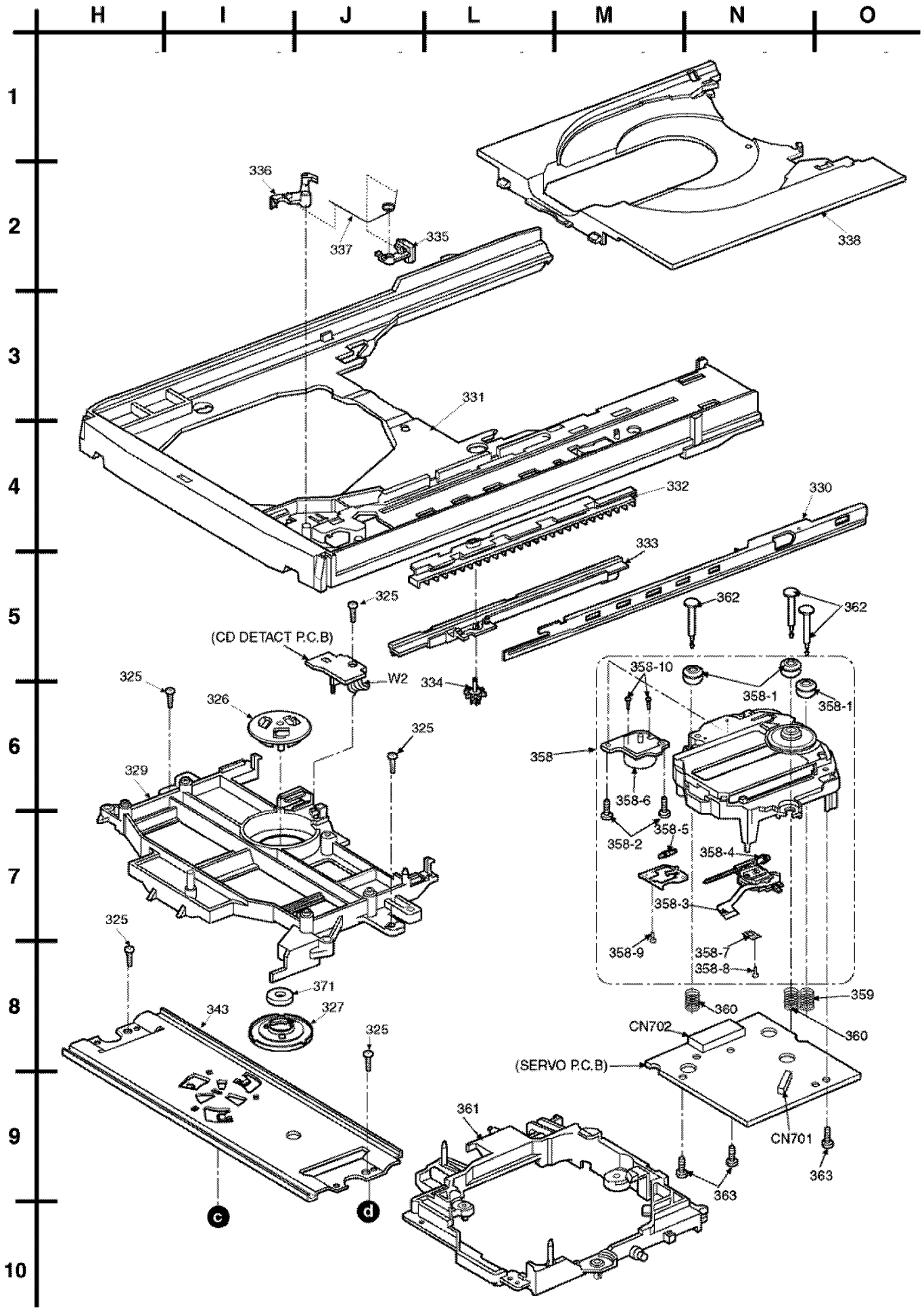
## 20.1.2. Deck Mechanism Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | CASSETTE DECK | |
| | | | |
| 101 | RED0067 | HEAD BLOCK UNIT | [M] |
| 102 | RED0068 | R/P HEAD BLOCK UNIT | [M] |
| 103 | RDG0300 | REEL BASE GEAR | [M] |
| 104 | RDG0301 | WINDING RELAY GEAR | [M] |
| 105 | RDK0026 | MAIN GEAR | [M] |
| 106 | RDR0029 | RELAY PULLEY | [M] |
| 107 | RDV0033-4 | WINDING BELT | [M] |
| 108 | RDV0064 | CAPSTAN BELT | [M] |
| 109 | RDV0057 | MAIN BELT B | [M] |
| 110 | RMB0312 | TRIGGER LEVER SPRING | [M] |
| 111 | RMB0400 | REEL SPRING | [M] |
| 112 | RMB0403 | HEAB PANEL SPRING | [M] |
| 113 | RMB0404 | BRAKE ROD SPRING | [M] |
| 114 | RMB0406 | FR LEVER SPRING | [M] |
| 115 | RMB0408 | THRUST SPRING | [M] |
| 116 | RML0370 | TRIGGER LEVER | [M] |
| 117 | RML0371 | FR LEVER | [M] |
| 118 | RML0372 | WINDING LEVER | [M] |
| 119 | RML0374 | EJECT LEVER | [M] |
| 120 | RMM0131 | BRAKE ROD | [M] |
| 121 | RMM0133 | EJECT ROD | [M] |
| 122 | RMQ0519 | REEL HUB | [M] |
| 123 | RMS0398 | MOVING CORE | [M] |
| 124 | RSJ0003 | PLUNGER ASS'Y | [M] |
| 125 | RMC0061 | PACK SPRING | [M] |
| 126 | RXF0049 | FLYWHEEL F ASS'Y | [M] |
| 127 | RXF0050 | FLYWHEEL R ASS'Y | [M] |
| 128 | RXG0040 | FF RELAY GEAR ASS'Y | [M] |
| 129 | RMK0283A-J | SUB-CHASSIS | [M] |
| 130 | RXL0124 | PINCH ROLLER F ASS'Y | [M] |
| 130-1 | RMB0401 | PINCH ARM SPRING F | [M] |
| 132 | RXL0126 | WINDING ARM ASS'Y | [M] |
| 133 | RXQ0412 | HEAD PANEL ASS'Y | [M] |
| 133-1 | RMB0405 | FR ROD SPRING | [M] |
| 133-2 | RMM0132 | FR ROD | [M] |
| 134 | REM0070 | CAP MOTOR ASS'Y | [M] |
| 135 | RHD26022 | MOTOR SCREW | [M] |
| 136 | XTW2+5L | HEAD BLOCK UNIT SCRE | [M] |
| 137 | XTW26+10S | SUB-CHASSIS SCREW | [M] |
| 138 | XYC2+JF17 | PCB EARTH SCREW | [M] |
| 139 | RFKJAA4501-S | CHASSIS ASS'Y | [M] |

# 20.2. CD Loading Mechanism (RD-DAC026-S)

## 20.2.1. CD Loading Mechanism Parts Location

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(CD DETACT P.C.B)
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358-10
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358-1
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343
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CN702
(SERVO P.C.B)
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CN701
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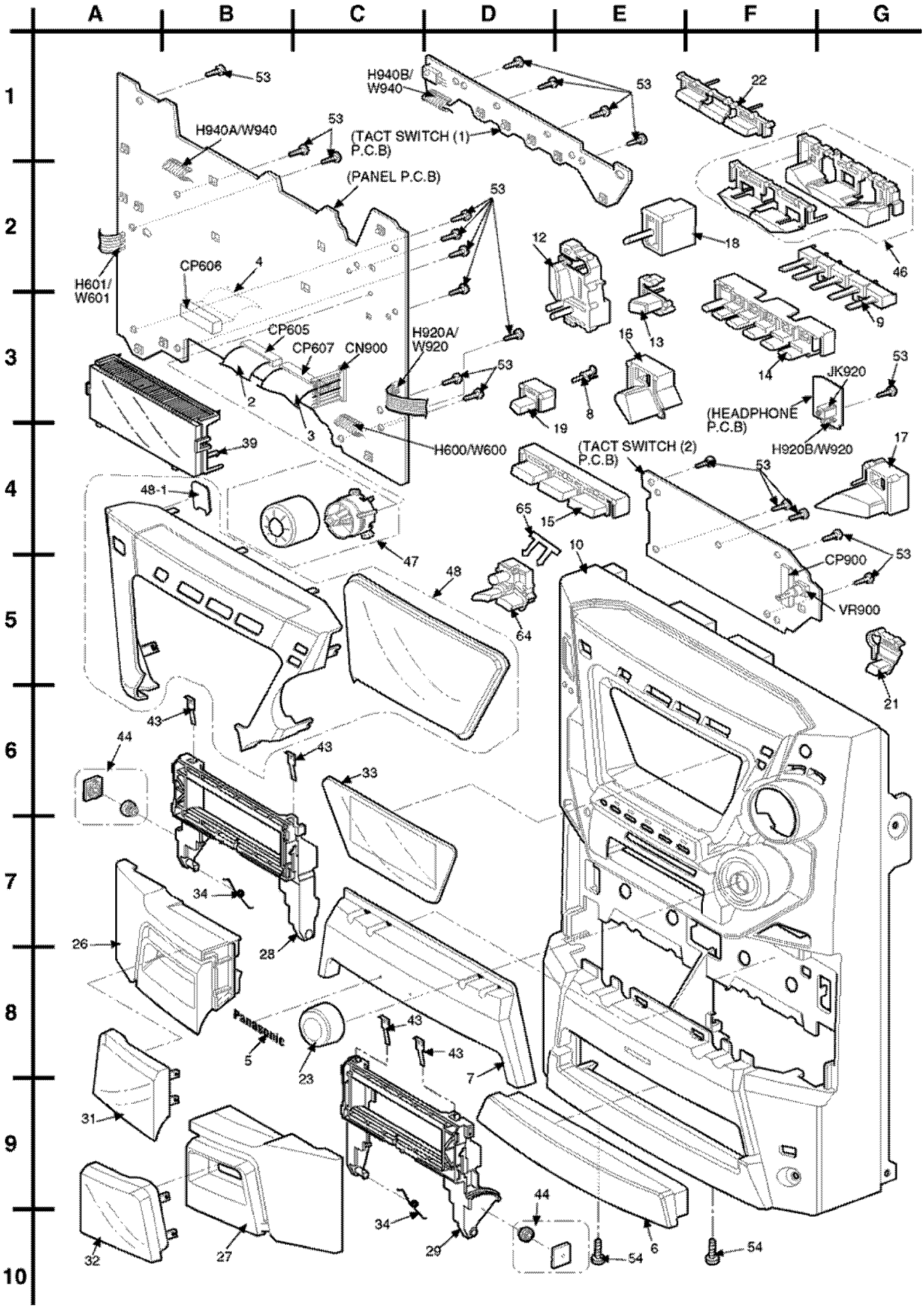
363
C
d

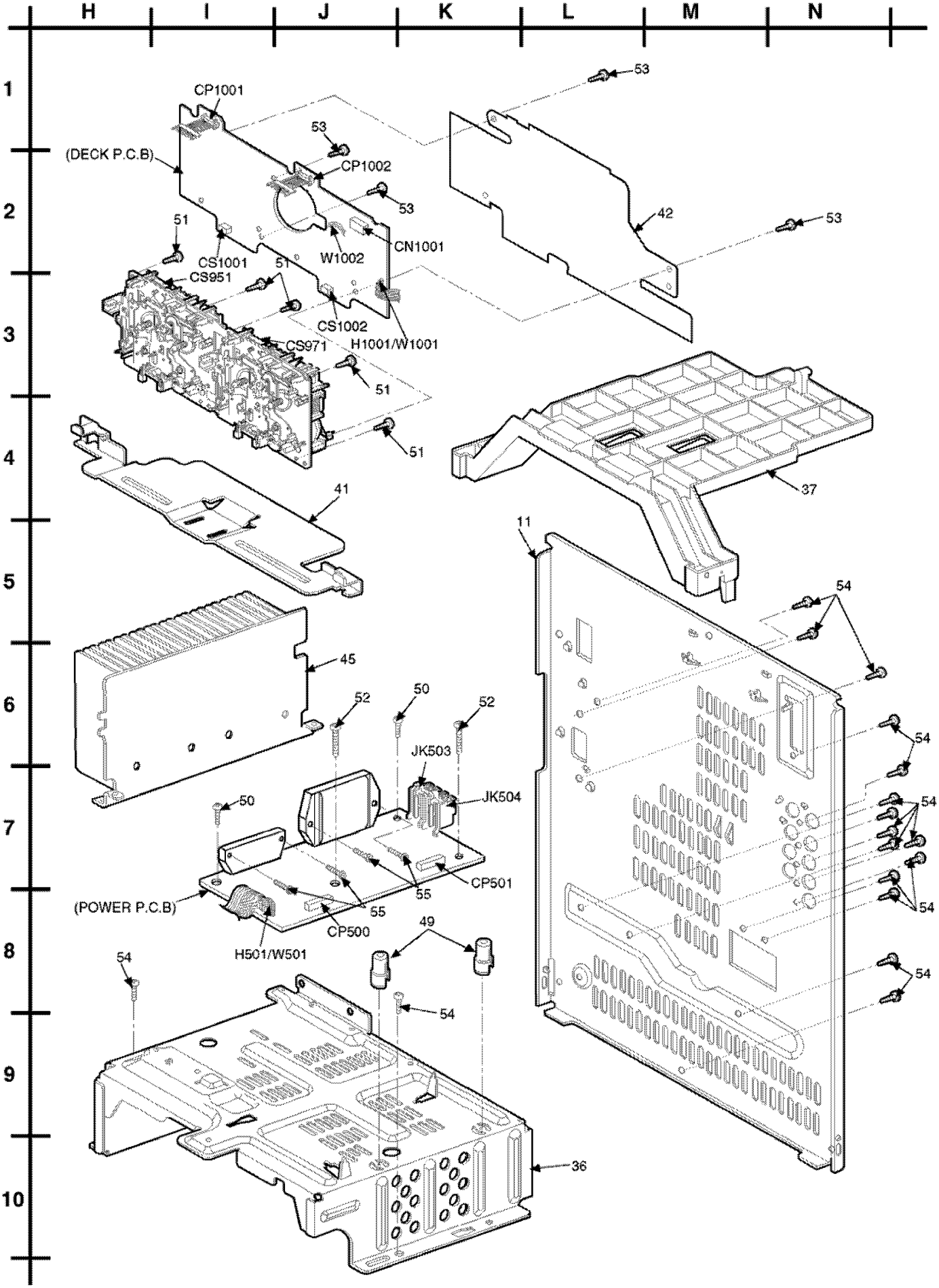
## 20.2.2. CD Loading Mechanism Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | TRAVERSE DECK | |
| | | | |
| 301 | RML0517 | TIMING LEVER | [M] |
| 302 | RML0516 | PLUNGER LEVER | [M] |
| 303 | RMB0551 | UPPER SPINDLE SPRING | [M] |
| 304 | RMQ0744 | LOWER HOOK | [M] |
| 305 | RDV0056 | BELT | [M] |
| 306 | RML0525 | FRONT LOCK LEVER | [M] |
| 307 | RML0526 | DISC LEVER | [M] |
| 308 | RDG0424 | DRIVE GEAR | [M] |
| 309 | RDG0425 | CHANGE GEAR | [M] |
| 310 | RDG0427 | TRAVERSE CAM GEAR | [M] |
| 311 | RDG0428 | TRAVERSE RELAY GEAR | [M] |
| 312 | RDG0426 | UP/DOWN GEAR | [M] |
| 313 | RDG0429 | PULLEY GEAR | [M] |
| 314 | RMB0549-1 | CHANGE GEAR SPRING | [M] |
| 315 | RMQ0748 | PITCH PLATE | [M] |
| 316 | RMB0553 | PUSH SPRING | [M] |
| 317 | RML0530 | ASSIST LEVER | [M] |
| 318 | RML0518 | CONNECTION LEVER | [M] |
| 319 | RMM0201 | SLIDE PLATE 1 | [M] |
| 320 | RME0258 | REAR LOCK SPRING | [M] |
| 321 | RML0521 | REAR LOCK | [M] |
| 322 | RME0257 | TRAY LOCK LEVER SPRI | [M] |
| 323 | RML0520 | TRAY LOCK | [M] |
| 324 | RMM0202 | SLIDE PLATE 2 | [M] |
| 325 | XTB3+10J | SCREW | [M] |
| 326 | RMR0334 | FIXED PLATE | [M] |
| 327 | RMR0624-W2 | CLAMPER | [M] |
| 328 | RMB0561 | ASSIST LEVER SPRING | [M] |
| 329 | RMR1121-K | MECHA COVER | [M] |
| 330 | RMA1110-2 | TRAY ANGLE | [M] |
| 331 | RMR1122-H1 | TRAY BASE | [M] |
| 332 | RMM0204 | CARRIER | [M] |
| 333 | RMM0203 | DRIVE RACK | [M] |
| 334 | RDG0432 | SPEED UP GEAR | [M] |
| 335 | RML0524 | SLIDE LOCK | [M] |
| 336 | RML0523 | CARRIER LOCK | [M] |
| 337 | RME0260-1 | SLIDE LOCK SPRING | [M] |
| 338 | RMR1123-H | TRAY | [M] |
| 339 | RXQ0595 | MOTOR SUB ASS'Y | [M] |
| 341 | RSJ0003 | SOLENOLD ASS'Y | [M] |
| 343 | RMA1106 | UPPER PLATE | [M] |
| 344 | RML0519 | 8CD LEVER | [M] |
| 345 | RFKNAAK27GCS | MECHA BASE ASS'Y | [M] |
| 346 | RML0522 | TURNING STOPPER | [M] |
| 347 | RMQ0745 | LOWER SPINDLE | [M] |
| 348 | RMQ0746 | UP/DOWN BASE | [M] |
| 349 | RMB0550 | LOWER SPINDLE SPRING | [M] |
| 350 | RMQ0747 | UPPER HOOK | [M] |
| 351 | RME0263 | CLICK SPRING | [M] |
| 352 | RMQ0743 | SPINDLE SHAFT | [M] |
| 353 | RMB0552 | CUSHION SPRING | [M] |
| 354 | RDG0430 | RELAY GEAR 'A' | [M] |
| 355 | RDG0431 | RELAY GEAR 'B' | [M] |
| 356 | RME0262 | DISK LEVER SP. | [M] |
| 357 | RMA1105 | SUPPORT PLATE | [M] |
| 358 | RAE0152Z-3 | TRAVERSE | [M] |
| 358-1 | SHGD113-1 | FLOATING CUSHION | [M] |
| 358-10 | XQS17+A35FZ | TRAVERSE MOTOR SCREW | [M] |
| 358-2 | SNSD38 | TRV MOTOR ASSY SCREW | [M] |
| 358-3 | RAF0150A-4S | 50A OPTICAL PICKUP | [M] |
| 358-4 | RDG0247 | DRIVE GEAR | [M] |
| 358-5 | RDG0248 | RELAY GEAR | [M] |
| 358-6 | RXQ0339 | TRAVERSE MOTOR ASSY | [M] |
| 358-7 | RXQ0304-1 | NUT PLATE ASSY | [M] |
| 358-8 | XQN17+CG5 | NUT PLATE ASSY SCREW | [M] |
| 358-9 | XQS2+A3FZ | SPINDLE MOTOR SCREW | [M] |
| 359 | RME0142 | FLOATING SPRING A | [M] |
| 360 | RME0109 | FLOATING SPRING B | [M] |
| 361 | RMR1124-K1 | TRAVERSE CHASSIS | [M] |
| 362 | RMS0632 | TRAVERSE PIN | [M] |
| 363 | XTN2+6G | SCREW | [M] |
| 369 | RMX0141 | PUSH SPACER | [M] |
| 370 | RMQ0749 | UPPER SPINDLE | [M] |
| 371 | RHM0001 | MAGNET | [M] |
| 372 | RMX0140 | DISC SPACER | [M] |
| 373 | RME0261 | FRONT LOCK SPRING | [M] |
| 374 | RMQ0742 | SPINDLE BASE | [M] |

# 20.3. Cabinet

## 20.3.1. Cabinet Parts Location

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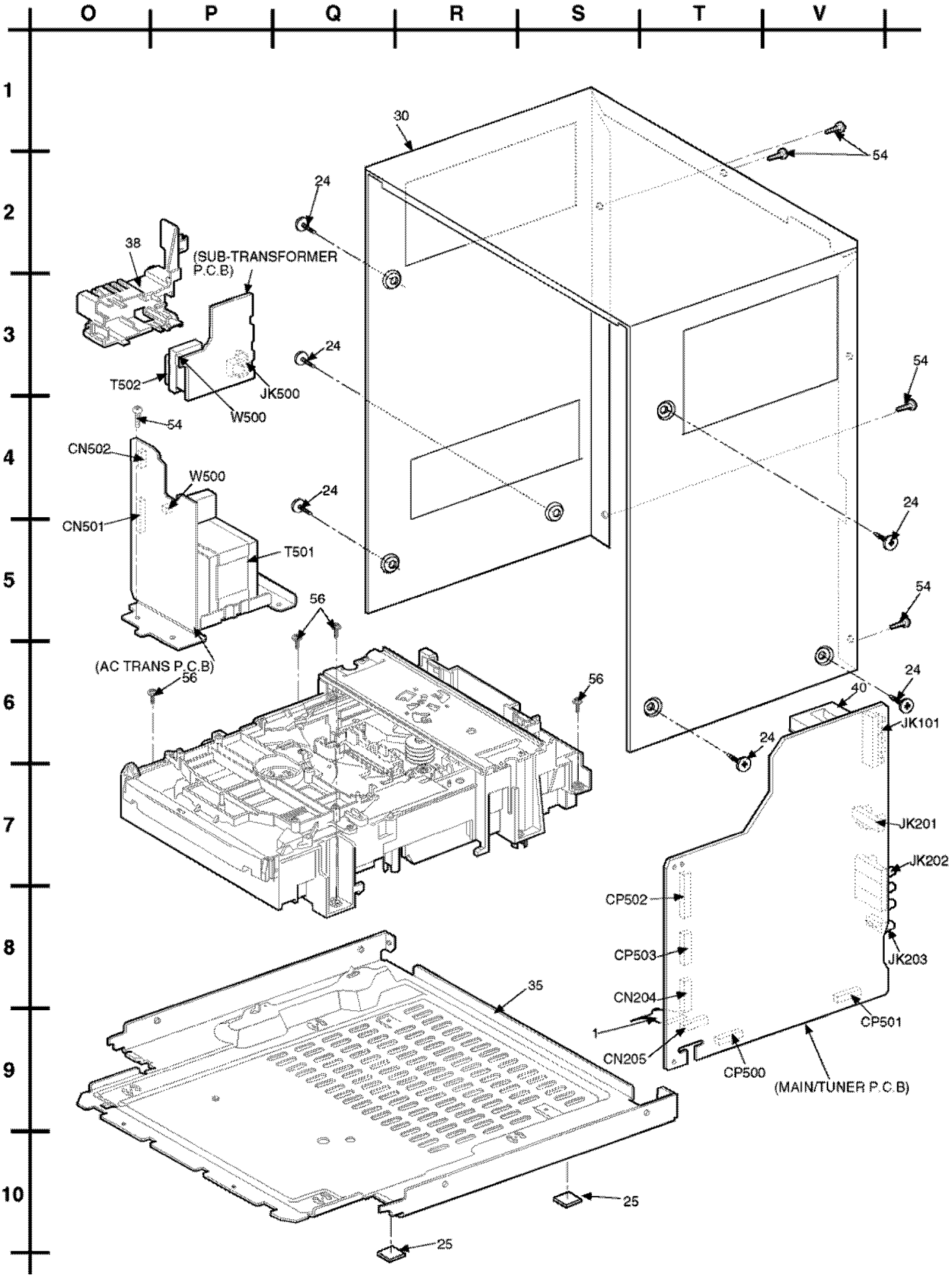
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JK201
JK202
JK203
CP502
CP503
CN204
CP501
CN205
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## 20.3.2. Cabinet Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | CABINET AND CHASSIS | |
| 1 | REEX0129 | 14P FFC | [M] |
| 2 | REEX0101-1 | 28P FFC | [M] |
| 3 | REEX0131-1 | 18P FFC WIRE | [M] |
| 4 | REEX0130 | 19P FFC | [M] |
| 5 | RGB0113-N | PANA BADGE | [M] |
| 6 | RGKX0070-S | CD LID | [M] |
| 7 | RGKX0071B-S | CD ORNAMENT | [M] |
| 8 | RGLX0028-Q | POWER LIGHTING CHIP | [M] |
| 9 | RGLX0030-Q | DISC LIGHT CHIP | [M] |
| 10 | RGPX0038F-S | FRONT PANEL | [M] |
| 11 | RGRX0019A-A | REAR PANEL | [M] P |
| 11 | RGRX0019A-B | REAR PANEL | [M] PC |
| 12 | RGUX0368-S | POWER BUTTON | [M] |
| 13 | RGUX0369-S | CD EJECT BUTTON | [M] |
| 14 | RGUX0371-S | DISC BUTTON | [M] |
| 15 | RGUX0372-S | DECK BUTTON | [M] |
| 16 | RGUX0378-S | DECK EJECT BUTTON L | [M] |
| 17 | RGUX0379-S | DECK EJECT BUTTON R | [M] |
| 18 | RGUX0397-S | DISPLAY BUTTON | [M] |
| 19 | RGUX0400-S | AUXILIARY BUTTON | [M] |
| 21 | RGUX0411-Q | AMAZING BUTTON | [M] |
| 22 | RGUX0412-S | FUNCTION BUTTON | [M] |
| 23 | RGWX0055-S | VOLUME KNOB | [M] |
| 24 | RHD30002-H | SCREW | [M] |
| 25 | RKA0059-K | LEG RUBBER | [M] |
| 26 | RKFX0083-S | CASS. LID (L) | [M] |
| 27 | RKFX0084-S | CASS. LID (R) | [M] |
| 28 | RKFX0085-K1 | CASS HOLDER (L) | [M] |
| 29 | RKFX0086-K1 | CASS HOLDER (R) | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| 30 | RKMX0057-S | TOP CABINET (BENT) | [M] |
| 31 | RKWX0148-H | CASS. WIN (L) | [M] |
| 32 | RKWX0149-H | CASS. WIN (R) | [M] |
| 33 | RKWX0156 | FL FILTER | [M] |
| 34 | RMBX0016-1 | CASS. OPEN SPRING | [M] |
| 35 | RMKX0043 | BOTTOM CHASSIS | [M] |
| 36 | RMKX0044 | INNER CHASSIS | [M] |
| 37 | RMKX0045 | T BRACKET | [M] |
| 38 | RMNX0039-H | SUB TRANS SUPPORT | [M] |
| 39 | RMNX0048 | HOLDER | [M] |
| 40 | RSC0027-2 | TUNER PACK | [M] |
| 41 | RSCX0052 | SHIELD PLATE HEAD | [M] |
| 42 | RSCX0058 | DECK SHIELD PLATE | [M] |
| 43 | RUS757ZAA | CASSETTE HALF SPRING | [M] |
| 44 | RXGX0001 | DAMPER GEAR | [M] |
| 45 | RXXX0021-K | HEAT SINK UNIT | [M] |
| 46 | RYQX0040-S | CONTROL BUTTON UNIT | [M] |
| 47 | RYQX0042-S | JOY JOG UNIT | [M] |
| 48 | RYQX0045-S | FL ORNAMENT UNIT | [M] |
| 48-1 | RKWX0155-H | REMOTE SENSOR WINDOW | [M] |
| 49 | SHE187-5 | PCB SUPPORT (NO PIN) | [M] |
| 50 | XTB3+10J | SCREW | [M] |
| 51 | XTB3+10JFZ | SCREW | [M] |
| 52 | XTB3+20J | SCREW | [M] |
| 53 | XTBS26+10J | SCREW | [M] |
| 54 | XTBS3+8JFZ1 | SCREW | [M] |
| 55 | XTW3+15J | SCREW | [M] |
| 56 | XTW3+8T | SCREW | [M] |
| 64 | RGUX0381-Q | PPL/SSS 6 CH BUTTON | [M] |
| 65 | RMQX0049 | DPL LIGHT LEAKAGE CO | [M] |

## 20.4. Electrical Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | PRINTED CIRCUITS BOARD | |
| | | | |
| | REPX0192D | CD SERVO P.C.B. | [M] (RTL) |
| | REPX0243A | MAIN/TUNER P.C.B. | [M] (RTL) |
| | REPX0244A | PANEL P.C.B. | [M] (RTL) |
| | REPX0244A | HEADPHONE P.C.B. | [M] (RTL) |
| | REPX0244A | TACT SWITCH (1) P.C.B. | [M] (RTL) |
| | REPX0244A | TACT SWITCH (2) P.C.B. | [M] (RTL) |
| | REPX0108H | MECHANISM (DECK 1) P.C.B. | [M] (RTL) |
| | REPX0108F | MECHANISM (DECK 2) P.C.B. | [M] (RTL) |
| | REP1999B | TUNER PACK P.C.B. | [M] (RTL) |
| | REP2578A-N | CD LOADING P.C.B. | [M] (RTL) |
| | REP2578A-N | CD DETACT P.C.B. | [M] (RTL) |
| | REP2578A-N | SPINDLE POSITION P.C.B. | [M] (RTL) |
| | REPX0198B | DECK P.C.B. | [M] (RTL) |
| | REPX0245A | POWER P.C.B. | [M] (RTL) |
| | REPX0262A | AC TRANSFORMER P.C.B. | [M] (RTL) |
| | REPX0262A | SUB TRANSFORMER P.C.B. | [M] (RTL) |
| | | | |
| | | INTEGRATED CIRCUITS | |
| | | | |
| IC1 | TA7291P | IC DRIVE | [M] |
| IC101 | LA1833NMNTLM | IC IF & MPX | [M] |
| IC102 | LC72131MDTRM | IC PLL | [M] |
| IC301 | TC4052BFNELM | IC CMOS SWITCH | [M] |
| IC302 | BH3874AKS2 | IC ASP | [M] |
| IC303 | M62464FP | IC PRO LOGIC DECODER | [M] |
| IC305 | BU2090AF-E2 | IC I/O EXPANDER | [M] |
| IC308 | M5218AP | IC BUFFER AMP | [M] |
| IC309 | M5228FPE1 | IC QUAD OP. AMP | [M] |
| IC310 | M62429FP | IC VOLUME | [M] |
| IC500 | RSN311W64B-P | IC HIC | [M] ⚠ |
| IC501 | STK470-080 | IC POWER | [M] ⚠ |
| IC600 | M38B79MFA054 | IC MICRO-PROCESSOR | [M] |
| IC601 | BU2090AF-E2 | IC I/O EXPANDER | [M] |
| IC603 | 93LC46B | E2PROM | [M] |
| IC701 | AN8885SBE1 | IC RFAMP | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| IC702 | MN662790RSC | IC LSI | [M] |
| IC703 | AN8739SBE2 | IC 4CH DRIVER | [M] |
| IC951 | 0N2180RLC1 | IC PHOTO INTERRUPTER | [M] |
| IC971 | 0N2180RLC1 | IC PHOTO INTERRUPTER | [M] |
| IC1001 | AN7348STA-E1 | IC TAPE PB | [M] |
| IC1002 | BU2090AF-E2 | IC I/O EXPANDER | [M] |
| IC1003 | BA4558FE2 | IC BUFFER | [M] |
| IC1004 | BA7755A | IC SW | [M] |
| | | | |
| | | TRANSISTORS | |
| | | | |
| Q1 | 2SK544F-AC | TRANSISTOR | [M] |
| Q1 | RVTDTC143EST | TRANSISTOR | [M] |
| Q2 | 2SC2786MTA | TRANSISTOR | [M] |
| Q3 | 2SC2787FL1TA | TRANSISTOR | [M] |
| Q4 | 2SC2787FL1TA | TRANSISTOR | [M] |
| Q101 | 2SC2058SPTA | TRANSISTOR | [M] |
| Q106 | KRA102MTA | TRANSISTOR | [M] ⚠ |
| Q201 | KTD1304TA | TRANSISTOR | [M] |
| Q202 | KTD1304TA | TRANSISTOR | [M] |
| Q203 | KTD1304TA | TRANSISTOR | [M] |
| Q204 | KTD1304TA | TRANSISTOR | [M] |
| Q206 | KTC3875GRTA | TRANSISTOR | [M] |
| Q207 | KTD1304TA | TRANSISTOR | [M] |
| Q301 | KRA102STA | TRANSISTOR | [M] |
| Q302 | 2SB621ARSTA | TRANSISTOR | [M] ⚠ |
| Q304 | 2SB621ARSTA | TRANSISTOR | [M] |
| Q305 | KRC102STA | TRANSISTOR | [M] |
| Q306 | KRA111STA | TRANSISTOR | [M] |
| Q307 | KRC111STA | TRANSISTOR | [M] |
| Q308 | KRA111STA | TRANSISTOR | [M] |
| Q401 | KTD1304TA | TRANSISTOR | [M] |
| Q402 | KTD1304TA | TRANSISTOR | [M] |
| Q403 | KTD1304TA | TRANSISTOR | [M] |
| Q404 | KTD1304TA | TRANSISTOR | [M] |
| Q406 | KTC3875GRTA | TRANSISTOR | [M] |
| Q503 | KTC3199GRTA | TRANSISTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| Q505 | KTC3199GRTA | TRANSISTOR | [M] |
| Q510 | 2SD2144STA | TRANSISTOR | [M] ⚠ |
| Q520 | KTC3199GRTA | TRANSISTOR | [M] |
| Q521 | KRA102MTA | TRANSISTOR | [M] |
| Q570 | KTC3205Y | TRANSISTOR | [M] ⚠ |
| Q571 | KRC102MTA | TRANSISTOR | [M] |
| Q572 | KTC3199GRTA | TRANSISTOR | [M] ⚠ |
| Q600 | KTA12710YTA | TRANSISTOR | [M] ⚠ |
| Q601 | KRC103MTA | TRANSISTOR | [M] ⚠ |
| Q602 | KRC102MTA | TRANSISTOR | [M] ⚠ |
| Q603 | 2SA933SSTA | TRANSISTOR | [M] ⚠ |
| Q604 | KRC101MTA | TRANSISTOR | [M] |
| Q605 | KRC101MTA | TRANSISTOR | [M] |
| Q606 | KRC101MTA | TRANSISTOR | [M] |
| Q607 | KTC3199GRTA | TRANSISTOR | [M] |
| Q608 | KTC3199GRTA | TRANSISTOR | [M] |
| Q701 | 2SA1037AKSTX | TRANSISTOR | [M] |
| Q1001 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1003 | 2SD2144STA | TRANSISTOR | [M] |
| Q1004 | 2SD2144STA | TRANSISTOR | [M] |
| Q1005 | 2SD2144STA | TRANSISTOR | [M] |
| Q1007 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1008 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1009 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1010 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1011 | KTC3875GRTA | TRANSISTOR | [M] |
| Q1012 | KTD1304TA | TRANSISTOR | [M] |
| Q1013 | KTD1304TA | TRANSISTOR | [M] |
| Q1014 | 2SC2412KT96R | TRANSISTOR | [M] |
| Q1015 | 2SC2412KT96R | TRANSISTOR | [M] |
| Q1016 | KRA102STA | TRANSISTOR | [M] |
| Q1017 | KTD1146YTA | TRANSISTOR | [M] |
| Q1018 | KTA12710YTA | TRANSISTOR | [M] |
| Q1019 | KTA12710YTA | TRANSISTOR | [M] |
| Q1020 | KTD1304TA | TRANSISTOR | [M] |
| Q1021 | KTD1304TA | TRANSISTOR | [M] |
| Q1022 | KRA102STA | TRANSISTOR | [M] |
| Q1023 | KRA102STA | TRANSISTOR | [M] |
| Q1024 | 2SD2144STA | TRANSISTOR | [M] |
| | | | |
| | | DIODES | |
| | | | |
| D1 | GP1S94 | DIODE | [M] |
| D1 | SVC211SPA-AL | DIODE | [M] |
| D2 | MTZJ4R7BTA | DIODE | [M] |
| D2 | SVC211SPA-AL | DIODE | [M] |
| D3 | SVC211SPA-AL | DIODE | [M] |
| D101 | UDZSTE175R1B | DIODE | [M] |
| D201 | MA728TX | DIODE | [M] |
| D302 | MA728TX | DIODE | [M] |
| D303 | UDZSTE175R1B | DIODE | [M] |
| D304 | RL1N4003S-P | DIODE | [M] |
| D305 | RL1N4003S-P | DIODE | [M] |
| D306 | MA8300MTX | DIODE | [M] |
| D307 | 1SS355TE17 | DIODE | [M] |
| D308 | DAP202KT146 | DIODE | [M] |
| D309 | DAP202KT146 | DIODE | [M] |
| D310 | DAP202KT146 | DIODE | [M] |
| D311 | RL1N4003S-P | DIODE | [M] |
| D312 | RL1N4003S-P | DIODE | [M] |
| D313 | UDZSTE177R5B | DIODE | [M] |
| D401 | MA728TX | DIODE | [M] |
| D502 | RL1N4003S-P | DIODE | [M] |
| D503 | RL1N4003S-P | DIODE | [M] |
| D504 | RVD1SS133TA | DIODE | [M] |
| D505 | RVD1SS133TA | DIODE | [M] |
| D512 | 1N5402BM21 | DIODE | [M] ⚠ |
| D513 | 1N5402BM21 | DIODE | [M] ⚠ |
| D514 | 1N5402BM21 | DIODE | [M] ⚠ |
| D515 | RVD1SS133TA | DIODE | [M] |
| D516 | 1N5402BM21 | DIODE | [M] ⚠ |
| D517 | RK306LFU1 | DIODE | [M] |
| D518 | 1N5402BM21 | DIODE | [M] |
| D519 | RK306LFU1 | DIODE | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| D520 | 1N5402BM21 | DIODE | [M] ⚠ |
| D521 | 1N5402BM21 | DIODE | [M] ⚠ |
| D522 | 1N5402BM21 | DIODE | [M] ⚠ |
| D570 | 1T3T | DIODE | [M] |
| D571 | 1T3T | DIODE | [M] |
| D572 | 1T3T | DIODE | [M] |
| D573 | 1T3T | DIODE | [M] |
| D574 | RVD1SS133TA | DIODE | [M] |
| D576 | KBP202G | DIODE | [M] ⚠ |
| D580 | MTZJ6R8BTA | DIODE | [M] |
| D601 | RVD1SS133TA | DIODE | [M] |
| D605 | SLI325URCT31 | DIODE | [M] |
| D610 | MA723TA | DIODE | [M] |
| D611 | RVD1SS133TA | DIODE | [M] |
| D612 | RVD1SS133TA | DIODE | [M] |
| D613 | MA4020LTA | DIODE | [M] |
| D614 | MA700ATA | DIODE | [M] |
| D615 | MA700ATA | DIODE | [M] |
| D616 | MA700ATA | DIODE | [M] |
| D617 | MA700ATA | DIODE | [M] |
| D619 | RVD1SS133TA | DIODE | [M] |
| D620 | 1SS291TA | DIODE | [M] |
| D621 | 1SS291TA | DIODE | [M] |
| D914 | SLR325MCT31W | DIODE | [M] |
| D915 | SLR325MCT31W | DIODE | [M] |
| D916 | SLR325MCT31W | DIODE | [M] |
| D917 | SLR325MCT31W | DIODE | [M] |
| D918 | SLR325MCT31W | DIODE | [M] |
| D949 | SLR325DCT31 | DIODE | [M] |
| D951 | MA165TA | DIODE | [M] |
| D951 | SLR325MCT31W | DIODE | [M] |
| D952 | SLR325DCT31 | DIODE | [M] |
| D953 | SLR325DCT31 | DIODE | [M] |
| D971 | MA165TA | DIODE | [M] |
| D1002 | 1SS355TE17 | DIODE | [M] |
| D1003 | 1SS355TE17 | DIODE | [M] |
| D1004 | UDZTE173R6B | DIODE | [M] |
| | | | |
| | | VARIABLE RESISTORS | |
| | | | |
| VR900 | EVEKE2F2524B | VR VOLUME JOG | [M] |
| | | | |
| | | SWITCHES | |
| | | | |
| S701 | RSH1A043-U | SW RESET | [M] |
| S900 | EVQ21405R | SW CD MANAGER | [M] |
| S901 | EVQ21405R | SW CD 1 | [M] |
| S902 | EVQ21405R | SW CD 2 | [M] |
| S903 | EVQ21405R | SW CD 3 | [M] |
| S904 | EVQ21405R | SW CD 4 | [M] |
| S905 | EVQ21405R | SW CD 5 | [M] |
| S906 | EVQ21405R | SW REC/STOP | [M] |
| S907 | EVQ21405R | SW REV MODE | [M] |
| S908 | EVQ21405R | SW CD TAPE EDIT | [M] |
| S909 | EVQ21405R | SW TUNER DOWN | [M] |
| S910 | EVQ21405R | SW FM MODE/BP | [M] |
| S911 | EVQ21405R | SW MEMORY | [M] |
| S912 | EVQ21405R | SW TUNE MODE | [M] |
| S913 | EVQ21405R | SW TUNE UP | [M] |
| S920 | EVQ21405R | SW CD EJECT | [M] |
| S940 | EVQ21405R | SW AUX | [M] |
| S941 | EVQ21405R | SW TUNER | [M] |
| S942 | EVQ21405R | SW TAPE | [M] |
| S943 | EVQ21405R | SW CD | [M] |
| S945 | EVQ21405R | SW SUPER SOUND EQ | [M] |
| S951 | EVQ21405R | SW DECK 2 | [M] |
| S951 | RSH1A018-3U | MODE SWITCH | [M] |
| S952 | RSH1A019-2U | HALF SWITCH | [M] |
| S953 | RSH1A019-2U | SW CR02 | [M] |
| S956 | EVQ21405R | SW POWER | [M] |
| S958 | EVQ21405R | SW PLAY/REC TIMER | [M] |
| S959 | EVQ21405R | SW CLOCK/TIMER | [M] |
| S961 | EVQ21405R | SW DISPLAY/CHARACTER | [M] |
| S962 | EVQ21405R | SW DECK 1 | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| S965 | EVQ21405R | SW NAS | [M] |
| S966 | EVQ21405R | SW 6CH | [M] |
| S967 | EVQ21405R | SW DPL | [M] |
| S971 | RSH1A019-2U | SW MODE | [M] |
| S972 | RSH1A019-2U | SW HALF | [M] |
| S973 | RSH1A019-2U | SWITCH CR02 | [M] |
| S974 | RSH1A019-2U | SW RECINH_R | [M] |
| S975 | RSH1A019-2U | SW RECINH_F | [M] |
| S976 | RSH1A019-2U | SW METAL | [M] |
| | | | |
| | | SWITCHES | |
| | | | |
| SW1 | RSH1A032-U | SW PUSH | [M] |
| SW2 | RSH1A032-U | SW PUSH | [M] |
| SW3 | RSH1A005-1U | SW | [M] |
| SW4 | RSH1A91ZA-A | SW CD | [M] |
| SW5 | RSP1A017-A | SW LOCK | [M] |
| SW600 | ESE24SV2 | SW JOY JOG | [M] |
| | | | |
| | | CONNECTORS | |
| | | | |
| CN1 | RJS1A9414 | FF CONNECTOR | [M] |
| CN204 | RJS1A5210 | 10P WIRE HOLDER | [M] |
| CN205 | RJS1A9414-1 | 14P CONNECTOR | [M] |
| CN501 | RJT119W13H | 13P CONNECTOR | [M] |
| CN502 | RJP6G18ZA | SOCKET | [M] |
| CN701 | RJS2A6016 | 16P FFC CONNECTOR | [M] |
| CN702 | RJS1A6719-1Q | 19P FFC CONNECTOR | [M] |
| CN900 | RJT066H12F | 12P BTB CONNECTOR | [M] |
| CN1001 | RJS8T7ZA | 8 PIN MOLEX | [M] |
| | | | |
| CP500 | RJT057G12 | 12P P2 MQ CONNECTOR | [M] |
| CP500 | RJU057G12 | 12P P2 MQ CONNECTOR | [M] |
| CP501 | RJT057G12 | 12P P2 MQ CONNECTOR | [M] |
| CP501 | RJU057G12 | 12P P2 MQ CONNECTOR | [M] |
| CP502 | RJS1A9428-1 | 28P FFC CONNECTOR | [M] |
| CP503 | RJS1A9418 | CONNECTOR | [M] |
| CP605 | RJS1A9418 | CONNECTOR | [M] |
| CP606 | RJS1A6219-1 | 19P FFC CONNECTOR | [M] |
| CP607 | RJS1A9428-1 | 28P FFC CONNECTOR | [M] |
| CP900 | RJU066H12M | 12P BTB CONNECTOR | [M] |
| CP1001 | RJT071K09A | 9P B/B CONNECTOR | [M] |
| CP1002 | RJT071K09A | 9P B/B CONNECTOR | [M] |
| | | | |
| CS951 | RJU071H09M1 | CONNECTOR | [M] |
| CS971 | RJU071H09M1 | CONNECTOR | [M] |
| CS1001 | RJS1A6805-J | 5P CONNECTOR SOCKET | [M] |
| CS1002 | RJS1A6805-J | 5P CONNECTOR SOCKET | [M] |
| | | | |
| | | COILS & TRANSFORMERS | |
| | | | |
| L1 | RLQZP1R2KT-Y | NIL | [M] |
| L2 | RLQZPR47KT-Y | NIL | [M] |
| L102 | RLQB1R0KTD-D | INDUCTOR | [M] |
| L603 | RLQB3R3JTD-D | COIL | [M] |
| L605 | RLQB101JTD-D | INDUCTOR | [M] |
| L920 | RLQB101JTD-D | INDUCTOR | [M] |
| L921 | RLQB101JTD-D | INDUCTOR | [M] |
| L922 | RLQB100JTD-D | INDUCTOR | [M] |
| L1001 | RLQB470JTD-D | RF CHOKE COIL | [M] |
| L1002 | 7L1A62N | BIAS OSC COIL | [M] |
| | | | |
| T501 | RTP2N3C012 | MAIN TRANSFORMER | [M] ⚠ |
| T502 | RTP1I3E002-V | BACK UP TRANSFORMER | [M] ⚠ |
| | | | |
| | | COMPONENT COMBINATIO | |
| | | | |
| Z101 | RLA2Z007-T | COIL | [M] |
| Z102 | RLI2Z021M-T | AM IF BLOCK | [M] |
| Z501 | ERZV10V511CS | ZENER | [M] ⚠ |
| Z940 | GP1UM262RK | REMOTE SENSOR | [M] |
| Z971 | RGSD12A1445T | RADA RESISTOR | [M] |
| Z1001 | RGSD12A1445T | SENSOR | [M] |
| Z1002 | RGSD12A1445T | SENSOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | CERAMIC FILTERS | |
| | | | |
| CF201 | RLFFETWND01M | FM CF | [M] |
| CF202 | RLFFETWND01M | FM CF | [M] |
| | | | |
| | | RELAY | |
| | | | |
| RL502 | RSY0056M-C | PRIMAY RELAY | [M] ⚠ |
| | | | |
| | | OSCILLATORS | |
| | | | |
| X102 | RLFDFT22DD | DISCRIMINATOR | [M] |
| X103 | RSXC7M20S05T | CRYSTAL OSCILLATOR | [M] |
| X600 | RSXZ4M19M01T | CRYSTAL OSCILLATOR | [M] |
| X601 | RSXD32K7S02 | CRYSTAL OSCILLATOR | [M] |
| X701 | RSXZ16M9M08T | CERAMIC OSCILLATOR | [M] |
| | | | |
| | | DISPLAY TUBE | |
| | | | |
| FL600 | RSL0314-F | FL | [M] |
| | | | |
| | | FUSES | |
| | | | |
| F1 | XBA1C40NBAL | FUSE | [M] ⚠ |
| | | | |
| | | FUSE HOLDERS | |
| | | | |
| FC1 | EYF52BC | FUSE HOLDER | [M] |
| FC2 | EYF52BC | FUSE HOLDER | [M] |
| | | | |
| | | HOLDERS | |
| | | | |
| H501 | RJS1A5513 | 13 PIN WIRE HOLDER | [M] |
| H600 | RMR0317 | 8P CABLE HOLDER | [M] |
| H601 | RMR0315 | 6P CABLE HOLDER | [M] |
| H920A | RMR0315 | 6P CABLE HOLDER | [M] |
| H920B | RMR0315 | 6P CABLE HOLDER | [M] |
| H940A | RMR0318 | 9P CABLE HOLDER | [M] |
| H940B | RMR0318 | 9P CABLE HOLDER | [M] |
| H1001 | RMR0319 | 10P CABLE HOLDER | [M] |
| | | | |
| | | JACKS | |
| | | | |
| JK101 | RJH5414-1 | JK ANTENNA | [M] |
| JK201 | RJH2213L-1 | JK 2P RCA | [M] |
| JK202 | RJH2603N-4 | JK 6P RCA PIN | [M] |
| JK203 | RJH2110N-2 | JK SUB-WOOFER | [M] |
| JK500 | SJSD16-J | JK AC INLET | [M] ⚠ |
| JK503 | RJR0054-L | JK SPEAKER TERMINAL | [M] |
| JK504 | RJH5603-4 | JK SP TERMINAL (6P) | [M] |
| JK920 | RJJ37TK07-X | JK HP/MIC | [M] |
| | | | |
| | | EARTH TERMINAL | |
| | | | |
| E500 | SNE1004-2 | EARTH TERMINAL | [M] |
| | | | |
| | | WIRES | |
| | | | |
| W1 | REE0501 | WIRE UNIT | [M] |
| W1 | REXX0235 | 13P FLAT WIRE | [M] |
| W1 | REZ1023-1 | 4P WIRE | [M] |
| W2 | REE0955 | AC IN (W1) | [M] |
| W2 | REZ1024 | 3P WIRE | [M] |
| W500 | REXX0202 | 2P STANDBY WIRE | [M] |
| W600 | RWJ0208155RX | WIRE 8P PANEL TO DEC | [M] |
| W601 | REXX0253 | 6P WIRE | [M] |
| W920 | RWJ0206250XX | 6P (2) FLAT WIRE | [M] |
| W940 | RWJ1109140RR | 9P WIRE | [M] |
| W1001 | RWJ8010160RX | 10P WIRE | [M] |
| W1002 | RWJ0102065CK | WIRE | [M] |
| | | | |
| | | RESISTORS | |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R1 | ERDS2TJ102T | 1K 1/4W | [M] |
| R1 | ERDS2TJ104T | 100K 1/4W | [M] |
| R2 | ERDS2TJ104T | 100K 1/4W | [M] |
| R3 | ERDS2TJ221T | 220 1/4W | [M] |
| R4 | ERDS2TJ104T | 100K 1/4W | [M] |
| R5 | ERDS2TJ564T | 560K 1/4W | [M] |
| R6 | ERDS2TJ391T | 390 1/4W | [M] |
| R7 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R8 | ERDS2TJ684T | 680K 1/4W | [M] |
| R9 | ERDS2TJ391T | 390 1/4W | [M] |
| R10 | ERDS2TJ391T | 390 1/4W | [M] |
| R11 | ERDS2TJ684T | 680K 1/4W | [M] |
| R102 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R103 | ERJ3GEYJ271V | 270 1/16W | [M] |
| R104 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R105 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R106 | ERJ3GEYJ474V | 470K 1/16W | [M] |
| R107 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R110 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R111 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R112 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R113 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R114 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R115 | ERJ3GEYJ561V | 560 1/16W | [M] |
| R116 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R117 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R118 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R119 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R120 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R121 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R122 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R123 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R124 | ERJ3GEYJ330V | 33 1/16W | [M] |
| R125 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R126 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R127 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R128 | ERJ3GEYJ820V | 82 1/16W | [M] |
| R129 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R130 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R131 | ERJ3GEYJ680V | 68 1/16W | [M] |
| R132 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R133 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R134 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R135 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R136 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R137 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R138 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R141 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R142 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R143 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R145 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R146 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R151 | ERJ3GEYJ820V | 82 1/16W | [M] |
| R152 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R201 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R202 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R205 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R206 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R207 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R208 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R209 | ERJ3GEYJ821V | 820 1/16W | [M] |
| R210 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R211 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R212 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R213 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R214 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R215 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R216 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R217 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R218 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R219 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R221 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R222 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R223 | ERJ3GEYJ102V | 1K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R224 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R225 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R226 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R227 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R228 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R229 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |
| R230 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R231 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R232 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R233 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R234 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R235 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R236 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R237 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R238 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R239 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R240 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R241 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R242 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R243 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R244 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R246 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R247 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R250 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R282 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R295 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R296 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R297 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R298 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R299 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R301 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R302 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R304 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R305 | ERJ3GEYJ394V | 390K 1/16W | [M] |
| R306 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R307 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R308 | ERJ3GEYJ394V | 390K 1/16W | [M] |
| R309 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R310 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R311 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R312 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R313 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R314 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R315 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R316 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R317 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R318 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R319 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R320 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R321 | ERJ3GEYJ753V | 75K 1/16W | [M] |
| R322 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R323 | ERJ3GEYJ154V | 150K 1/16W | [M] |
| R324 | ERJ3GEYJ753V | 75K 1/16W | [M] |
| R325 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R326 | ERJ3GEYJ154V | 150K 1/16W | [M] |
| R327 | ERJ3GEYJ334V | 330K 1/16W | [M] |
| R328 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R329 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R330 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R331 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R332 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R333 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R334 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R335 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R336 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R337 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R338 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R339 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R340 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R341 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R342 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R344 | ERD2FCVJ4R7T | 4.7 1/4W | [M] |
| R345 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R346 | ERJ3GEYJ151V | 150 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R352 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R353 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R364 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R365 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R393 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R394 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R395 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R396 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R397 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R398 | ERJ3GEYJ154V | 150K 1/16W | [M] |
| R399 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R400 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R401 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R402 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R405 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R406 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R407 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R408 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R409 | ERJ3GEYJ821V | 820 1/16W | [M] |
| R410 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R411 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R412 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R413 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R414 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R415 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R416 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R417 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R418 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R419 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R420 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R421 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R422 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R423 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R424 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R425 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R426 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R427 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R429 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |
| R430 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R431 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R432 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R433 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R434 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R435 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R436 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R437 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R438 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R439 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R440 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R441 | ERJ3GEYJ154V | 150K 1/16W | [M] |
| R442 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R443 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R444 | ERJ3GEYJ824V | 820K 1/16W | [M] |
| R445 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R446 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R447 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R448 | ERDS1FVJ100T | 10 1/2W | [M] |
| R449 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R450 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R451 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R452 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R453 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R454 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R455 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R456 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R457 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R458 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R459 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R460 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R461 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R462 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R463 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R464 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R465 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R466 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R467 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R468 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R469 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R470 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R471 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R472 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R473 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R474 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R475 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R476 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R479 | ERDS1FVJ100T | 10 1/2W | [M] |
| R481 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R485 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R486 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R487 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R488 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R489 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R501 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R502 | ERDS2TJ563T | 56K 1/4W | [M] |
| R505 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R507 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R508 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R509 | ERDS2TJ332T | 3.3K 1/4W | [M] |
| R510 | ERDS2TJ563T | 56K 1/4W | [M] |
| R512 | ERDS2TJ332T | 3.3K 1/4W | [M] |
| R513 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R514 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R515 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R516 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R520 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R526 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R532 | ERDS2TJ563T | 56K 1/4W | [M] |
| R533 | ERDS2TJ563T | 56K 1/4W | [M] |
| R534 | ERDS2TJ563T | 56K 1/4W | [M] |
| R535 | ERDS2TJ563T | 56K 1/4W | [M] |
| R536 | ERDS2TJ563T | 56K 1/4W | [M] |
| R537 | ERDS2TJ563T | 56K 1/4W | [M] |
| R546 | ERDS2TJ474T | 470K 1/4W | [M] |
| R549 | ERDS2TJ153T | 15K 1/4W | [M] |
| R550 | ERDS2TJ153T | 15K 1/4W | [M] |
| R552 | ERDS1FVJ2R2T | 2.2 1/2W | [M] |
| R553 | ERDS1FVJ2R2T | 2.2 1/2W | [M] |
| R555 | ERDS2TJ124T | 120K 1/4W | [M] |
| R556 | ERDS2TJ224T | 220K 1/4W | [M] |
| R557 | ERDS2TJ124T | 120K 1/4W | [M] |
| R558 | ERDS2TJ154T | 150K 1/4W | [M] |
| R559 | ERDS2TJ184T | 180K 1/4W | [M] |
| R560 | ERDS2TJ124T | 120K 1/4W | [M] |
| R561 | ERDS2TJ103T | 10K 1/4W | [M] |
| R564 | ERDS2TJ103T | 10K 1/4W | [M] |
| R567 | ERDS2TJ104T | 100K 1/4W | [M] |
| R568 | ERDS2TJ223T | 22K 1/4W | [M] |
| R570 | ERDS1FVJ180T | 18 1/2W | [M] |
| R571 | ERDS1FVJ180T | 18 1/2W | [M] |
| R572 | ERDS1FVJ220T | 22 1/2W | [M] |
| R573 | ERDS2TJ151T | 150 1/4W | [M] |
| R574 | ERDS2TJ821T | 820 1/4W | [M] |
| R576 | ERDS2TJ103T | 10K 1/4W | [M] |
| R577 | ERDS2TJ103T | 10K 1/4W | [M] |
| R578 | ERDS2TJ331T | 330 1/4W | [M] |
| R579 | ERC12UGK335D | 3.3M 1/2W | [M] |
| R579 | ERDS1FVJ2R2T | 2.2 1/2W | [M] |
| R580 | ERDS2TJ183T | 18K 1/4W | [M] |
| R581 | ERDS2TJ183T | 18K 1/4W | [M] |
| R582 | ERDS1FVJ2R2T | 2.2 1/2W | [M] |
| R582 | ERDS2TJ150T | 15 1/4W | [M] |
| R583 | ERDS1FVJ100T | 10 1/2W | [M] |
| R584 | ERDS1FVJ100T | 10 1/2W | [M] |
| R585 | ERDS1FVJ100T | 10 1/2W | [M] |
| R586 | ERDS1FVJ100T | 10 1/2W | [M] |
| R587 | ERDS1FVJ100T | 10 1/2W | [M] |
| R588 | ERDS1FVJ100T | 10 1/2W | [M] |
| R589 | RSFMB40KT-L | FUSE PROTECTOR | [M] ⚠ |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R590 | ERC12UGK335D | 3.3M 1/2W | [M] |
| R591 | RSFMB40KT-L | FUSE PROTECTOR | [M] ⚠ |
| R592 | RSFMB10KT-L | PROTECTOR | [M] ⚠ |
| R593 | ERDS2TJ150T | 15 1/4W | [M] |
| R594 | ERDS2TJ152T | 1.5K 1/4W | [M] |
| R595 | ERDS2TJ152T | 1.5K 1/4W | [M] |
| R605 | ERDS2TJ392T | 3.9K 1/4W | [M] |
| R606 | ERDS2TJ154T | 150K 1/4W | [M] |
| R607 | ERDS2TJ154T | 150K 1/4W | [M] |
| R608 | ERDS2TJ222T | 2.2K 1/4W | [M] |
| R611 | ERDS2TJ104T | 100K 1/4W | [M] |
| R612 | ERDS2TJ104T | 100K 1/4W | [M] |
| R613 | ERDS2TJ104T | 100K 1/4W | [M] |
| R614 | ERDS2TJ104T | 100K 1/4W | [M] |
| R615 | ERDS2TJ104T | 100K 1/4W | [M] |
| R616 | ERDS2TJ104T | 100K 1/4W | [M] |
| R617 | ERDS2TJ104T | 100K 1/4W | [M] |
| R618 | ERDS2TJ104T | 100K 1/4W | [M] |
| R619 | ERDS2TJ104T | 100K 1/4W | [M] |
| R620 | ERDS2TJ104T | 100K 1/4W | [M] |
| R621 | ERDS2TJ104T | 100K 1/4W | [M] |
| R622 | ERDS2TJ104T | 100K 1/4W | [M] |
| R623 | ERDS2TJ152T | 1.5K 1/4W | [M] |
| R624 | ERDS2TJ223T | 22K 1/4W | [M] |
| R628 | ERDS2TJ103T | 10K 1/4W | [M] |
| R629 | ERDS2TJ103T | 10K 1/4W | [M] |
| R630 | ERDS2TJ103T | 10K 1/4W | [M] |
| R631 | ERDS2TJ101T | 100 1/4W | [M] |
| R632 | ERDS2TJ101T | 100 1/4W | [M] |
| R633 | ERDS2TJ101T | 100 1/4W | [M] |
| R634 | ERDS2TJ102T | 1K 1/4W | [M] |
| R635 | ERDS2TJ102T | 1K 1/4W | [M] |
| R636 | ERDS2TJ101T | 100 1/4W | [M] |
| R637 | ERDS2TJ223T | 22K 1/4W | [M] |
| R638 | ERDS2TJ681T | 680 1/4W | [M] |
| R639 | ERDS2TJ101T | 100 1/4W | [M] |
| R640 | ERDS2TJ103T | 10K 1/4W | [M] |
| R641 | ERDS2TJ473T | 47K 1/4W | [M] |
| R642 | ERDS2TJ223T | 22K 1/4W | [M] |
| R643 | ERDS2TJ103T | 10K 1/4W | [M] |
| R644 | ERDS2TJ471T | 470 1/4W | [M] |
| R645 | ERDS2TJ102T | 1K 1/4W | [M] |
| R646 | ERDS2TJ223T | 22K 1/4W | [M] |
| R648 | ERDS2TJ101T | 100 1/4W | [M] |
| R649 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R650 | ERDS2TJ474T | 470K 1/4W | [M] |
| R651 | ERDS2TJ680T | 68 1/4W | [M] |
| R652 | ERDS2TJ680T | 68 1/4W | [M] |
| R653 | ERDS2TJ101T | 100 1/4W | [M] |
| R654 | ERDS2TJ101T | 100 1/4W | [M] |
| R655 | ERDS2TJ101T | 100 1/4W | [M] |
| R656 | ERDS2TJ101T | 100 1/4W | [M] |
| R657 | ERDS2TJ101T | 100 1/4W | [M] |
| R658 | ERDS2TJ101T | 100 1/4W | [M] |
| R659 | ERDS2TJ101T | 100 1/4W | [M] |
| R660 | ERDS2TJ101T | 100 1/4W | [M] |
| R661 | ERDS2TJ101T | 100 1/4W | [M] |
| R662 | ERDS2TJ101T | 100 1/4W | [M] |
| R663 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R664 | ERDS2TJ101T | 100 1/4W | [M] |
| R665 | ERDS2TJ101T | 100 1/4W | [M] |
| R666 | ERDS2TJ101T | 100 1/4W | [M] |
| R667 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R668 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R669 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R670 | ERDS2TJ104T | 100K 1/4W | [M] |
| R671 | ERDS2TJ104T | 100K 1/4W | [M] |
| R672 | ERDS2TJ104T | 100K 1/4W | [M] |
| R673 | ERDS2TJ223T | 22K 1/4W | [M] |
| R674 | ERDS2TJ102T | 1K 1/4W | [M] |
| R675 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R676 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R677 | ERDS2TJ681T | 680 1/4W | [M] |
| R678 | ERDS2TJ334T | 330K 1/4W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R679 | ERDS2TJ106T | 10M 1/4W | [M] |
| R680 | ERDS2TJ103T | 10K 1/4W | [M] |
| R681 | ERDS2TJ103T | 10K 1/4W | [M] |
| R682 | ERDS2TJ123T | 12K 1/4W | [M] |
| R683 | ERDS2TJ223T | 22K 1/4W | [M] |
| R685 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R686 | ERDS2TJ562T | 5.6K 1/4W | [M] |
| R687 | ERDS2TJ223T | 22K 1/4W | [M] |
| R688 | ERDS2TJ223T | 22K 1/4W | [M] |
| R689 | ERDS2TJ472T | 47K 1/4W | [M] |
| R690 | ERDS2TJ101T | 100 1/4W | [M] |
| R691 | ERDS2TJ473T | 47K 1/4W | [M] |
| R692 | ERDS2TJ473T | 47K 1/4W | [M] |
| R693 | ERDS2TJ473T | 47K 1/4W | [M] |
| R694 | ERDS2TJ473T | 47K 1/4W | [M] |
| R695 | ERDS2TJ473T | 47K 1/4W | [M] |
| R698 | ERDS2TJ101T | 100 1/4W | [M] |
| R699 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R700 | ERDS2TJ101T | 100 1/4W | [M] |
| R701 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R701 | ERJ3GEYJ4R7V | 4.7 1/16W | [M] |
| R702 | ERDS2TJ103T | 10K 1/4W | [M] |
| R702 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R703 | ERDS2TJ102T | 1K 1/4W | [M] |
| R704 | ERDS2TJ103T | 10K 1/4W | [M] |
| R704 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R705 | ERDS2TJ103T | 10K 1/4W | [M] |
| R705 | ERJ3GEYJ154V | 150K 1/16W | [M] |
| R706 | ERDS2TJ103T | 10K 1/4W | [M] |
| R706 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R707 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R707 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R708 | ERDS2TJ103T | 10K 1/4W | [M] |
| R708 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R709 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R711 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R712 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R714 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R715 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R717 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R718 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R721 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R723 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R724 | ERJ6GEYJ183V | 18K 1/10W | [M] |
| R725 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R727 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R728 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R729 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R731 | ERJ6GEYJ682V | 6.8K 1/10W | [M] |
| R735 | ERJ6GEYJ101V | 100 1/10W | [M] |
| R736 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R741 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R742 | ERJ6GEYJ224V | 220K 1/10W | [M] |
| R744 | ERJ3GEYJ124V | 120K 1/16W | [M] |
| R749 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R750 | ERJ6GEYJ4R7V | 4.7 1/10W | [M] |
| R753 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R900 | ERDS2TJ223T | 22K 1/4W | [M] |
| R901 | ERDS2TJ102T | 1K 1/4W | [M] |
| R902 | ERDS2TJ102T | 1K 1/4W | [M] |
| R903 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R904 | ERDS2TJ182T | 1.8K 1/4W | [M] |
| R905 | ERDS2TJ222T | 2.2K 1/4W | [M] |
| R906 | ERDS2TJ102T | 1K 1/4W | [M] |
| R907 | ERDS2TJ102T | 1K 1/4W | [M] |
| R908 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R909 | ERDS2TJ182T | 1.8K 1/4W | [M] |
| R910 | ERDS2TJ222T | 2.2K 1/4W | [M] |
| R911 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R912 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R914 | ERDS2TJ471T | 470 1/4W | [M] |
| R915 | ERDS2TJ471T | 470 1/4W | [M] |
| R916 | ERDS2TJ471T | 470 1/4W | [M] |
| R917 | ERDS2TJ471T | 470 1/4W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R918 | ERDS2TJ471T | 470 1/4W | [M] |
| R919 | ERDS2TJ123T | 12K 1/4W | [M] |
| R920 | ERDS2TJ223T | 22K 1/4W | [M] |
| R940 | ERDS2TJ182T | 1.8K 1/4W | [M] |
| R941 | ERDS2TJ222T | 2.2K 1/4W | [M] |
| R942 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R943 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R944 | ERDS2TJ682T | 6.8K 1/4W | [M] |
| R945 | ERDS2TJ103T | 10K 1/4W | [M] |
| R949 | ERDS2TJ471T | 470 1/4W | [M] |
| R951 | ERDS2TJ102T | 1K 1/4W | [M] |
| R952 | ERDS2TJ102T | 1K 1/4W | [M] |
| R952 | ERDS2TJ821T | 820 1/4W | [M] |
| R953 | ERDS2TJ393T | 39K 1/4W | [M] |
| R954 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R955 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R956 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R957 | ERDS2TJ102T | 1K 1/4W | [M] |
| R958 | ERDS2TJ102T | 1K 1/4W | [M] |
| R959 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R960 | ERDS2TJ182T | 1.8K 1/4W | [M] |
| R961 | ERDS2TJ222T | 2.2K 1/4W | [M] |
| R962 | ERDS2TJ272T | 2.7K 1/4W | [M] |
| R963 | ERDS2TJ472T | 4.7K 1/4W | [M] |
| R964 | ERDS2TJ682T | 6.8K 1/4W | [M] |
| R965 | ERDS2TJ103T | 10K 1/4W | [M] |
| R967 | ERDS2TJ471T | 470 1/4W | [M] |
| R968 | ERDS2TJ471T | 470 1/4W | [M] |
| R969 | ERDS2TJ471T | 470 1/4W | [M] |
| R972 | ERDS2TJ821T | 820 1/4W | [M] |
| R973 | ERDS2TJ393T | 39K 1/4W | [M] |
| R998 | ERDS2TJ122T | 1.2K 1/4W | [M] |
| R999 | ERDS2TJ473T | 47K 1/4W | [M] |
| R1001 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R1003 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1004 | ERJ3GEYJ152V | 1.5K 1/16W | [M] |
| R1005 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1006 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1007 | ERD25FVJ4R7T | 4.7 1/4W | [M] |
| R1009 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R1010 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R1011 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1012 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1013 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1014 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1015 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1016 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1017 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1018 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R1019 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R1020 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1022 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1024 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R1026 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1027 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1028 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1029 | ERJ3GEYJ475V | 4.7M 1/16W | [M] |
| R1030 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R1031 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R1032 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1035 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1036 | ERJ3GEYJ470V | 47 1/16W | [M] |
| R1037 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1038 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1039 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R1040 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R1045 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1046 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1047 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1048 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1049 | ERJ3GEYJ105V | 1M 1/16W | [M] |
| R1050 | ERJ3GEYJ105V | 1M 1/16W | [M] |
| R1051 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1052 | ERJ3GEYJ221V | 220 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R1053 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R1054 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R1055 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1056 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1057 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1058 | ERJ3GEYJ272V | 2.7K 1/16W | [M] |
| R1059 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1060 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R1061 | ERJ3GEYJ2R7V | 2.7 1/16W | [M] |
| R1062 | ERJ3GEYJ2R7V | 2.7 1/16W | [M] |
| R1063 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1064 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1065 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1066 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1067 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R1068 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R1069 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R1070 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1071 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1072 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R1073 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R1074 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R1075 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1076 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1077 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R1078 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R1079 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1080 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1081 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1082 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R1083 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1084 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1085 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R1086 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1087 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R1088 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R1089 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R1090 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1091 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1092 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R1093 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1094 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1095 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1096 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1097 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1098 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| | | | |
| | | CAPACITORS | |
| | | | |
| C1 | ECBT1H5R6KC5 | 5.6P 50V | [M] |
| C1 | ECEA1CKA101B | 100 16V | [M] |
| C2 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C2 | RCBS1H102KBY | 1000P 50V | [M] |
| C3 | ECBT1H2R2KC5 | 2.2P 50V | [M] |
| C4 | ECBT1H181KB5 | 180P 50V | [M] |
| C5 | ECBT1H5R6KC5 | 5.6P 50V | [M] |
| C6 | ECBT1H3R3KC5 | 3.3P 50V | [M] |
| C7 | ECBT1H4R7KC5 | 4.7P 50V | [M] |
| C8 | ECBT1H3R3KC5 | 3.3P 50V | [M] |
| C9 | ECBT1H2R2KC5 | 2.2P 50V | [M] |
| C10 | ECBT1H180JC5 | 18P 50V | [M] |
| C11 | RCBS1H102KBY | 1000P 50V | [M] |
| C101 | ECUV1E103KBV | 0.01 25V | [M] |
| C102 | ECEA1CKA100B | 10 16V | [M] |
| C103 | ECUV1E103KBV | 0.01 25V | [M] |
| C104 | ECUV1H102KBV | 1000P 50V | [M] |
| C106 | ECUV1E103KBV | 0.01 25V | [M] |
| C107 | ECUV1E473ZFV | 0.047 25V | [M] |
| C108 | ECUV1H080DCV | 8P 50V | [M] |
| C109 | ECUV1H102KBV | 1000P 50V | [M] |
| C110 | ECUV1E103KBV | 0.01 25V | [M] |
| C111 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C112 | ECUV1E103KBV | 0.01 25V | [M] |
| C113 | ECUV1H102KBV | 1000P 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C114 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C115 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C116 | ECUV1C333KBV | 0.033 16V | [M] |
| C117 | ECUV1E103KBV | 0.01 25V | [M] |
| C118 | ECUV1E103KBV | 0.01 25V | [M] |
| C119 | ECQP2A681JZT | 680P 100V | [M] |
| C120 | ECEA1CKA100B | 10 16V | [M] |
| C121 | ECEA1HKAR47B | 0.47 50V | [M] |
| C122 | ECEA1HKA010B | 1 50V | [M] |
| C123 | ECEA1HKA010B | 1 50V | [M] |
| C124 | ECUV1H101KCV | 100P 50V | [M] |
| C125 | ECEA1CKA220B | 22 16V | [M] |
| C126 | ECUV1C105ZFN | 10 16V | [M] |
| C127 | ECEA1CKA220B | 22 16V | [M] |
| C129 | ECEA0JKA101B | 100 6.3V | [M] |
| C130 | ECEA0JKA101B | 100 6.3V | [M] |
| C131 | ECUV1H151JCV | 150P 50V | [M] |
| C132 | ECUV1H102KBV | 1000P 50V | [M] |
| C133 | ECUV1H270JCV | 27P 50V | [M] |
| C134 | ECUV1H270JCV | 27P 50V | [M] |
| C136 | ECUV1H102KBV | 1000P 50V | [M] |
| C137 | ECUV1H332KBV | 3300P 50V | [M] |
| C138 | ECUV1E103KBV | 0.01 25V | [M] |
| C139 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C141 | ECEA1HKA010B | 1 50V | [M] |
| C142 | ECEA1HKA010B | 1 50V | [M] |
| C143 | ECUV1H682KBV | 6800P 50V | [M] |
| C144 | ECUV1H682KBV | 6800P 50V | [M] |
| C147 | ECUV1H102KBV | 1000P 50V | [M] |
| C148 | ECUV1E103KBV | 0.01 25V | [M] |
| C149 | ECUV1C104ZFV | 0.1 16V | [M] |
| C201 | ECUV1H101JCV | 100P 50V | [M] |
| C202 | ECUV1H101JCV | 100P 50V | [M] |
| C205 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C206 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C207 | ECUV1H221KBV | 220P 50V | [M] |
| C208 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C209 | ECEA1CKA100B | 10 16V | [M] |
| C210 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C211 | ECEA1CKA100B | 10 16V | [M] |
| C212 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C213 | ECUV1C563KBV | 0.056 16V | [M] |
| C214 | ECUV1H222KBV | 2200P 50V | [M] |
| C215 | ECUV1H101JCV | 100P 50V | [M] |
| C216 | ECUV1H470JCV | 47P 50V | [M] |
| C217 | ECEA1CKA100B | 10 16V | [M] |
| C218 | ECUV1E103KBV | 0.01 25V | [M] |
| C219 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C220 | ECUV1H332KBV | 3300P 50V | [M] |
| C221 | ECUV1H470JCV | 47P 50V | [M] |
| C222 | ECUV1H101JCV | 100P 50V | [M] |
| C223 | ECEA1CKA100B | 10 16V | [M] |
| C224 | ECEA1CKA100B | 10 16V | [M] |
| C225 | ECUV1H102KBV | 1000P 50V | [M] |
| C226 | ECEA1CKA100B | 10 16V | [M] |
| C227 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C228 | ECUV1H470JCV | 47P 50V | [M] |
| C229 | ECUV1H681KBV | 680P 50V | [M] |
| C230 | ECEA1CKA100B | 10 16V | [M] |
| C231 | ECEA1CKA100B | 10 16V | [M] |
| C232 | ECUV1E103KBV | 0.01 25V | [M] |
| C246 | ECEA1CKA100B | 10 16V | [M] |
| C247 | ECEA1CKA100B | 10 16V | [M] |
| C250 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C300 | ECUV1E103KBV | 0.01 25V | [M] |
| C301 | ECEA1CKA100B | 10 16V | [M] |
| C302 | ECUV1C104KBV | 0.1 16V | [M] |
| C303 | ECUV1C473KBV | 0.047 16V | [M] |
| C304 | ECEA1CKA100B | 10 16V | [M] |
| C305 | ECUV1C473KBV | 0.047 16V | [M] |
| C306 | ECUV1H472KBV | 4700P 50V | [M] |
| C307 | ECEA1HKAR33B | 0.33 50V | [M] |
| C308 | ECEA1HKAR33B | 0.33 50V | [M] |
| C309 | ECEA1HKAR33B | 0.33 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C310 | ECEA1HKAR33B | 0.33 50V | [M] |
| C311 | ECUVNA154KBV | 0.15 10V | [M] |
| C312 | ECUVNA154KBV | 0.15 10V | [M] |
| C313 | ECUVNA154KBV | 0.15 10V | [M] |
| C314 | ECUVNA154KBV | 0.15 10V | [M] |
| C315 | ECUV1E273KBV | 0.027 25V | [M] |
| C316 | ECUV1E273KBV | 0.027 25V | [M] |
| C317 | ECUV1E273KBV | 0.027 25V | [M] |
| C318 | ECUV1E273KBV | 0.027 25V | [M] |
| C319 | ECUV1H562KBV | 5600P 50V | [M] |
| C320 | ECUV1H562KBV | 5600P 50V | [M] |
| C321 | ECUV1H562KBV | 5600P 50V | [M] |
| C322 | ECUV1H562KBV | 5600P 50V | [M] |
| C323 | ECUV1H152KBV | 1500P 50V | [M] |
| C324 | ECUV1H152KBV | 1500P 50V | [M] |
| C325 | ECUV1C683KBV | 0.068 16V | [M] |
| C326 | ECUV1C683KBV | 0.068 16V | [M] |
| C327 | ECUV1C683KBV | 0.068 16V | [M] |
| C328 | ECUV1C683KBV | 0.068 16V | [M] |
| C329 | ECUV1C683KBV | 0.068 16V | [M] |
| C330 | ECUV1C683KBV | 0.068 16V | [M] |
| C331 | ECUV1C104KBV | 0.1 16V | [M] |
| C332 | ECUV1C104KBV | 0.1 16V | [M] |
| C333 | ECUV1A224KBV | 0.22 10V | [M] |
| C334 | ECUV1A224KBV | 0.22 10V | [M] |
| C335 | ECEA1AM221B | 220 10V | [M] |
| C336 | ECUV1C104KBV | 0.1 16V | [M] |
| C337 | ECEA1CKA100B | 10 16V | [M] |
| C338 | ECQV1H224JL3 | 0.22 50V | [M] |
| C339 | ECEA1CKA100B | 10 16V | [M] |
| C340 | ECEA1CKA470B | 47 16V | [M] |
| C341 | ECUV1H681KBV | 680P 50V | [M] |
| C342 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C343 | ECEA1AM221B | 220 10V | [M] |
| C344 | ECEA1AKA101B | 100 10V | [M] |
| C345 | ECEA1CKA100B | 10 16V | [M] |
| C346 | ECEA1CKA100B | 10 16V | [M] |
| C347 | ECEA1CKA100B | 10 16V | [M] |
| C348 | ECEA1CKA100B | 10 16V | [M] |
| C349 | ECEA1CKA100B | 10 16V | [M] |
| C350 | ECEA1CKA100B | 10 16V | [M] |
| C351 | ECEA1CKA100B | 10 16V | [M] |
| C352 | ECEA1CKA100B | 10 16V | [M] |
| C353 | ECEA1CKA100B | 10 16V | [M] |
| C356 | ECEA1CKA100B | 10 16V | [M] |
| C357 | ECEA1HKAR33B | 0.33 50V | [M] |
| C358 | ECUV1C104KBV | 0.1 16V | [M] |
| C359 | ECUV1C104KBV | 0.1 16V | [M] |
| C360 | ECEA1CKA100B | 10 16V | [M] |
| C361 | ECEA1HKAR33B | 0.33 50V | [M] |
| C362 | ECEA1HKAR33B | 0.33 50V | [M] |
| C363 | ECEA1CKA100B | 10 16V | [M] |
| C364 | ECEA1CKA100B | 10 16V | [M] |
| C365 | ECEA1CKA100B | 10 16V | [M] |
| C366 | ECUV1C104KBV | 0.1 16V | [M] |
| C367 | ECEA1HKA010B | 1 50V | [M] |
| C368 | ECUV1C104KBV | 0.1 16V | [M] |
| C369 | ECUV1H101JCV | 100P 50V | [M] |
| C370 | ECUV1H101JCV | 100P 50V | [M] |
| C371 | ECUV1H101JCV | 100P 50V | [M] |
| C372 | ECEA1HKA010B | 1 50V | [M] |
| C373 | ECQB1H472JM3 | 4700P 50V | [M] |
| C374 | ECUV1H102KBV | 1000P 50V | [M] |
| C375 | ECUV1C104KBV | 0.1 16V | [M] |
| C376 | ECUV1A224KBV | 0.22 10V | [M] |
| C377 | ECUV1A224KBV | 0.22 10V | [M] |
| C378 | ECUV1C104KBV | 0.1 16V | [M] |
| C379 | ECUV1H472KBV | 4700P 50V | [M] |
| C380 | ECUV1H102KBV | 1000P 50V | [M] |
| C381 | ECEA1HKA010B | 1 50V | [M] |
| C383 | ECUV1H562KBV | 5600P 50V | [M] |
| C384 | ECUV1C473KBV | 0.047 16V | [M] |
| C385 | ECEA1HKAR68B | 0.68 50V | [M] |
| C386 | ECUV1A224KBV | 0.22 10V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C387 | ECUV1A224KBV | 0.22 10V | [M] |
| C388 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C389 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C390 | ECUV1A224KBV | 0.22 10V | [M] |
| C391 | ECUV1A224KBV | 0.22 10V | [M] |
| C392 | ECUV1C104KBV | 0.1 16V | [M] |
| C393 | ECUV1C473KBV | 0.047 16V | [M] |
| C394 | ECUV1C473KBV | 0.047 16V | [M] |
| C395 | ECUV1C104KBV | 0.1 16V | [M] |
| C396 | ECUV1C104KBV | 0.1 16V | [M] |
| C397 | ECUV1C223KBV | 0.022 16V | [M] |
| C398 | ECUV1C223KBV | 0.022 16V | [M] |
| C399 | ECUV1C104KBV | 0.1 16V | [M] |
| C400 | ECUV1H681KBV | 680P 50V | [M] |
| C401 | ECUV1H101JCV | 100P 50V | [M] |
| C402 | ECUV1H101JCV | 100P 50V | [M] |
| C405 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C406 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C407 | ECUV1H221KBV | 220P 50V | [M] |
| C408 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C409 | ECEA1CKA100B | 10 16V | [M] |
| C410 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C411 | ECEA1CKA100B | 10 16V | [M] |
| C412 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C413 | ECUV1C563KBV | 0.056 16V | [M] |
| C414 | ECUV1H222KBV | 2200P 50V | [M] |
| C415 | ECUV1H101KCV | 100P 50V | [M] |
| C416 | ECUV1H470JCV | 47P 50V | [M] |
| C417 | ECEA1CKA100B | 10 16V | [M] |
| C418 | ECUV1E103KBV | 0.01 25V | [M] |
| C419 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C420 | ECUV1H332KBV | 3300P 50V | [M] |
| C421 | ECUV1H470JCV | 47P 50V | [M] |
| C422 | ECUV1H101JCV | 100P 50V | [M] |
| C423 | ECEA1CKA100B | 10 16V | [M] |
| C424 | ECEA1CKA100B | 10 16V | [M] |
| C425 | ECUV1H102KBV | 1000P 50V | [M] |
| C426 | ECEA1CKA100B | 10 16V | [M] |
| C427 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C428 | ECUV1H470JCV | 390 50V | [M] |
| C429 | ECUV1H101KCV | 100P 50V | [M] |
| C430 | ECUV1E103KBV | 0.01 25V | [M] |
| C431 | ECEA1CKA100B | 10 16V | [M] |
| C432 | ECEA1CKA100B | 10 16V | [M] |
| C433 | ECUV1E103KBV | 0.01 25V | [M] |
| C434 | ECUV1E103KBV | 0.01 25V | [M] |
| C435 | ECUV1E103KBV | 0.01 25V | [M] |
| C436 | ECUV1E103KBV | 0.01 25V | [M] |
| C437 | ECUV1H681KBV | 680P 50V | [M] |
| C438 | ECEA1HKA010B | 1 50V | [M] |
| C439 | ECEA1JM101B | 100 63V | [M] |
| C440 | ECUVNA154KBV | 0.15 10V | [M] |
| C441 | ECUV1H102KBV | 1000P 50V | [M] |
| C442 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C443 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C444 | ECEA2AM100B | 10 100V | [M] |
| C446 | ECEA1CKA100B | 10 16V | [M] |
| C447 | ECEA1CKA100B | 10 16V | [M] |
| C448 | ECUVNA154KBV | 0.15 10V | [M] |
| C449 | ECUV1C474ZFV | 0.47 16V | [M] |
| C450 | ECUV1H101KCV | 100P 50V | [M] |
| C451 | ECUV1H101KCV | 100P 50V | [M] |
| C452 | ECUVNA154KBV | 0.15 10V | [M] |
| C453 | ECUV1H102KBV | 1000P 50V | [M] |
| C457 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C458 | ECEA1HKAR47B | 0.47 50V | [M] |
| C459 | ECUV1C104KBV | 0.1 16V | [M] |
| C460 | ECUV1E103KBV | 0.01 25V | [M] |
| C461 | ECUV1H471KBV | 470P 50V | [M] |
| C462 | ECUV1H101KCV | 100P 50V | [M] |
| C463 | ECUV1H101KCV | 100P 50V | [M] |
| C464 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C465 | ECUV1H471KBV | 470P 50V | [M] |
| C466 | ECUV1H102KBV | 1000P 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C467 | ECUVNA154KBV | 0.15 10V | [M] |
| C470 | ECEA0JKA471B | 470 6.3V | [M] |
| C500 | ECBT1H471KB5 | 470P 50V | [M] |
| C503 | ECBT1H471KB5 | 470P 50V | [M] |
| C508 | ECBT1H471KB5 | 470P 50V | [M] |
| C509 | ECBT1H103KB5 | 0.01 50V | [M] |
| C510 | ECBT1H471KB5 | 470P 50V | [M] |
| C511 | ECBT1H471KB5 | 470P 50V | [M] |
| C513 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C514 | ECBT1H471KB5 | 470P 50V | [M] |
| C521 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C523 | ECEA1HM470B | 47 50V | [M] |
| C524 | ECKR2H103ZF5 | 0.01 500V | [M] |
| C525 | ECKR2H103ZF5 | 0.01 500V | [M] |
| C526 | ECBT1H150JC5 | 15P 50V | [M] |
| C527 | ECBT1H150JC5 | 15P 50V | [M] |
| C528 | ECBT1H150JC5 | 15P 50V | [M] |
| C529 | ECBT1H150JC5 | 15P 50V | [M] |
| C530 | ECBT1H150JC5 | 15P 50V | [M] |
| C531 | ECBT1H150JC5 | 15P 50V | [M] |
| C539 | ECBT1H473ZF5 | 0.047 50V | [M] |
| C547 | ECEA1CKA100B | 10 16V | [M] |
| C549 | ECEA2AU100B | 10 100V | [M] |
| C554 | ECA0JM471B | 470 6.3V | [M] |
| C559 | ECBT1H473ZF5 | 0.047 50V | [M] |
| C561 | ECBT1H473ZF5 | 0.047 50V | [M] |
| C563 | ECBT1H473ZF5 | 0.047 50V | [M] |
| C565 | ECBT1H473ZF5 | 0.047 50V | [M] |
| C567 | ECBT1H473ZF5 | 0.047 50V | [M] |
| C569 | ECBT1H473ZF5 | 0.047 50V | [M] |
| C570 | ECEA1EKA470B | 47 25V | [M] |
| C571 | RCE1VFW472BJ | 4700P 50V5 | [M] ⚠ |
| C572 | RCE1VFW562BJ | 5600P 50V5 | [M] ⚠ |
| C573 | RCE1VFW562BJ | 5600P 50V5 | [M] ⚠ |
| C574 | RCE1VFW472BJ | 4700P 50V5 | [M] ⚠ |
| C575 | ECEA1HM470B | 47 50V | [M] |
| C576 | ECEA1HM470B | 47 50V | [M] |
| C577 | ECEA1EM331B | 330 25V | [M] |
| C578 | ECEA1HM101B | 100 50V | [M] |
| C579 | ECEA1HM470B | 47 50V | [M] ⚠ |
| C580 | ECEA1HM470B | 47 50V | [M] |
| C581 | ECKR2H103ZF5 | 0.01 100V | [M] |
| C582 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C583 | ECQV1H104JZ3 | 0.1 50V | [M] |
| C584 | RCEA1C102B-S | 1000P 16V | [M] |
| C585 | RCEA1C102B-S | 1000P 16V | [M] |
| C586 | ECEA1VKA4R7B | 4.7 35V | [M] |
| C587 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C588 | RCEA1E222B-S | 2200P 25V | [M] |
| C589 | ECKR1H103ZF5 | 0.01 50V | [M] |
| C600 | ECEA1VKA220B | 22 35V | [M] |
| C606 | ECBT1H101KB5 | 100P 50V | [M] |
| C607 | ECBT1H101KB5 | 100P 50V | [M] |
| C608 | ECBT1H331KB5 | 330P 50V | [M] |
| C609 | ECEA0JKA101B | 100 6.3V | [M] |
| C610 | ECBT1H102KB5 | 1000P 50V | [M] |
| C611 | RCEA0J102B-S | 1000P 6.3V | [M] |
| C612 | ECBT1H102KB5 | 1000P 50V | [M] |
| C613 | ECBT1H101KB5 | 100P 50V | [M] |
| C614 | ECBT1H101KB5 | 100P 50V | [M] |
| C616 | ECEA1HKA010B | 1 50V | [M] |
| C617 | ECEA1HKA2R2B | 2.2 50V | [M] |
| C618 | ECBT1H104ZF5 | 0.1 50V | [M] |
| C619 | ECBT1H101KB5 | 100P 50V | [M] |
| C620 | ECBT1H101KB5 | 100P 50V | [M] |
| C621 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C622 | ECEA1AKA220B | 22 10V | [M] |
| C624 | ECBT1H561KB5 | 560P 50V | [M] |
| C625 | ECBT1H561KB5 | 560P 50V | [M] |
| C626 | ECBT1H561KB5 | 560P 50V | [M] |
| C627 | ECBT1H561KB5 | 560P 50V | [M] |
| C628 | ECBT1H561KB5 | 560P 50V | [M] |
| C629 | ECBT1H561KB5 | 560P 50V | [M] |
| C630 | ECBT1H561KB5 | 560P 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C631 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C632 | ECBT1H561KB5 | 560P 50V | [M] |
| C633 | ECBT1H561KB5 | 560P 50V | [M] |
| C634 | ECEA1VKA220B | 22 35V | [M] |
| C635 | ECBT1H561KB5 | 560P 50V | [M] |
| C636 | ECBT1H561KB5 | 560P 50V | [M] |
| C637 | ECBT1H561KB5 | 560P 50V | [M] |
| C638 | ECBT1H561KB5 | 560P 50V | [M] |
| C639 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C640 | ECBT1H102KB5 | 1000P 50V | [M] |
| C641 | ECBT1H102KB5 | 1000P 50V | [M] |
| C642 | ECBT1H560J5 | 56P 50V | [M] |
| C643 | ECBT1H560J5 | 56P 50V | [M] |
| C644 | ECBT1H680J5 | 68P 50V | [M] |
| C645 | ECBT1H680J5 | 68P 50V | [M] |
| C646 | ECBT1H180JC5 | 18P 50V | [M] |
| C647 | ECBT1H150JC5 | 15P 50V | [M] |
| C648 | ECBT1H561KB5 | 560P 50V | [M] |
| C650 | ECBT1H331KB5 | 330P 50V | [M] |
| C651 | ECBT1H101KB5 | 100P 50V | [M] |
| C652 | ECBT1H101KB5 | 100P 50V | [M] |
| C653 | ECBT1H101KB5 | 100P 50V | [M] |
| C654 | ECBT1H101KB5 | 100P 50V | [M] |
| C655 | ECBT1H101KB5 | 100P 50V | [M] |
| C656 | ECBT1H101KB5 | 100P 50V | [M] |
| C660 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C661 | ECBT1H104ZF5 | 0.1 50V | [M] |
| C667 | ECBT1E223ZF5 | 0.022 50V | [M] |
| C701 | ECEA0JKA330I | 33 6.3V | [M] |
| C702 | ECUV1C104KBV | 0.1 16V | [M] |
| C703 | ECEA0JKA101I | 100 6.3V | [M] |
| C704 | ECUV1C104KBV | 0.1 16V | [M] |
| C706 | ECUV1H272KBV | 2700P 50V | [M] |
| C707 | ECUV1E273KBV | 0.027 25V | [M] |
| C710 | ECUV1H121KCV | 120P 50V | [M] |
| C711 | ECUV1C104ZFV | 0.1 16V | [M] |
| C712 | ECUV1C104ZFV | 0.1 16V | [M] |
| C713 | ECUV1C104KBV | 0.1 16V | [M] |
| C714 | ECEA0JKA101I | 100 6.3V | [M] |
| C715 | ECUV1H272KBV | 2700P 50V | [M] |
| C716 | ECUV1H821KBN | 820P 50V | [M] |
| C717 | ECUV1C104ZFV | 0.1 16V | [M] |
| C718 | ECUV1A224KBV | 0.22 10V | [M] |
| C721 | ECUV1H100DCV | 10P 50V | [M] |
| C722 | ECUV1H100DCV | 10P 50V | [M] |
| C723 | ECEA1AKA221I | 220 10V | [M] |
| C724 | ECUZ1E104MBN | 0.1 25V | [M] |
| C725 | ECUV1H102KBV | 1000P 50V | [M] |
| C726 | ECUV1H102KBV | 1000P 50V | [M] |
| C727 | ECA1HAK010XI | 1 50V | [M] |
| C728 | ECA1HAK010XI | 1 50V | [M] |
| C730 | ECUV1C104ZFV | 0.1 16V | [M] |
| C731 | ECEA0JKA221I | 220 6.3V | [M] |
| C732 | ECEA0JKA221I | 220 6.3V | [M] |
| C733 | ECUV1C104KBV | 0.1 16V | [M] |
| C734 | ECEA1AKA221I | 220 10V | [M] |
| C735 | ECUVNE104ZFN | 0.1 25V | [M] |
| C736 | ECUV1C104ZFV | 0.1 16V | [M] |
| C737 | ECUV1C104ZFV | 0.1 16V | [M] |
| C738 | ECUV1H103KBN | 0.01 50V | [M] |
| C739 | ECUV1H152KBV | 1500P 50V | [M] |
| C742 | ECUV1E273KBV | 0.027 25V | [M] |
| C743 | ECUV1C104ZFV | 0.1 16V | [M] |
| C744 | ECUV1H562KBV | 5600P 50V | [M] |
| C745 | ECUV1H102KBV | 1000P 50V | [M] |
| C747 | ECUV1H181KCV | 180P 50V | [M] |
| C749 | ECUV1H222KBV | 2200P 50V | [M] |
| C750 | ECUZ1E104MBN | 0.1 25V | [M] |
| C751 | ECUV1C104KBV | 0.1 16V | [M] |
| C752 | ECUV1H102KBV | 1000P 50V | [M] |
| C753 | ECUV1H471KBV | 470P 50V | [M] |
| C754 | ECUV1H471KBV | 470P 50V | [M] |
| C900 | ECBT1H101KB5 | 100P 50V | [M] |
| C919 | ECBT1H101KB5 | 100P 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C920 | ECBT1E223ZF5 | 0.022 25V | [M] |
| C921 | ECBT1E223ZF5 | 0.022 25V | [M] |
| C940 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C941 | ECBT1E103ZF5 | 0.01 25V | [M] |
| C1001 | ECUV1H103ZFV | 0.01 50V | [M] |
| C1002 | ECEA1HKN2R2B | 2.2 50V | [M] |
| C1003 | ECQP1152JZT | 1500P 100V | [M] |
| C1006 | ECEA1HKA010B | 1 50V | [M] |
| C1007 | ECQP2A472JZT | 4700P 100V | [M] |
| C1008 | ECEA1HKA010B | 1 50V | [M] |
| C1009 | ECEA1AKA470B | 47 10V | [M] |
| C1010 | ECEA1EM101B | 100 25V | [M] |
| C1011 | ECQV1H473JL3 | 0.047 50V | [M] |
| C1012 | ECUV1H102KBV | 1000P 50V | [M] |
| C1013 | ECUV1H102KBV | 1000P 50V | [M] |
| C1014 | ECUV1H102KBV | 1000P 50V | [M] |
| C1015 | ECUV1H102KBV | 1000P 50V | [M] |
| C1016 | ECUV1H222KBV | 2200P 50V | [M] |
| C1017 | ECUV1H222KBV | 2200P 50V | [M] |
| C1018 | ECUV1H103KBV | 0.01 50V | [M] |
| C1019 | ECUV1H102KBV | 1000P 50V | [M] |
| C1020 | ECUV1H471KBV | 470P 50V | [M] |
| C1021 | ECUV1H471KBV | 470P 50V | [M] |
| C1022 | ECUV1H102KBV | 1000P 50V | [M] |
| C1023 | ECUV1H102KBV | 1000P 50V | [M] |
| C1026 | ECEA0JKA470B | 47 6.3V | [M] |
| C1027 | ECUV1H102KBV | 1000P 50V | [M] |
| C1030 | ECEA1AKA101B | 100 10V | [M] |
| C1031 | ECEA1AKA101B | 100 10V | [M] |
| C1032 | ECFR1C183KR | 0.018 16V | [M] |
| C1033 | ECFR1C183KR | 0.018 16V | [M] |
| C1034 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1035 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1036 | ECUV1C333KBV | 0.033 16V | [M] |
| C1037 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1038 | ECUV1H221KBV | 220P 50V | [M] |
| C1039 | ECUV1H221KBV | 220P 50V | [M] |
| C1040 | ECEA1CKA100B | 10 16V | [M] |
| C1041 | ECEA1CKA100B | 10 16V | [M] |
| C1042 | ECEA1CKA220B | 22 16V | [M] |
| C1043 | ECEA1HKA4R7B | 4.7 50V | [M] |
| C1044 | ECEA1AKA330B | 33 10V | [M] |
| C1045 | ECEA1AKA220B | 22 10V | [M] |
| C1046 | ECEA1AKA221Q | 220 10V | [M] |
| C1047 | ECEA1HKA010B | 1 50V | [M] |
| C1048 | ECEA1HKA010B | 1 50V | [M] |
| C1049 | ECUV1H102KBV | 1000P 50V | [M] |
| C1050 | ECUV1H102KBV | 1000P 50V | [M] |
| C1051 | ECEA1HKA010B | 1 50V | [M] |
| C1052 | ECEA1HKA010B | 1 50V | [M] |
| C1053 | ECEA1CM221B | 220 16V | [M] |
| C1054 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1055 | ECEA1HKA0R1B | 0.1 50V | [M] |
| C1056 | ECUV1H103KBV | 0.01 50V | [M] |
| C1057 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1058 | ECUV1H470JCV | 47P 50V | [M] |
| C1059 | ECUV1H101KBV | 100P 50V | [M] |
| C1060 | ECUV1H472KBV | 4700P 50V | [M] |
| C1061 | ECUV1H101KBV | 100P 50V | [M] |
| C1062 | ECUV1C104ZFV | 0.1 16V | [M] |
| C1063 | ECUV1C104ZFV | 0.1 16V | [M] |
| C1064 | ECEA1HKA3R3B | 3.3 50V | [M] |
| C1065 | ECUV1H103ZFV | 0.01 50V | [M] |
| | | | |
| | | CHIP JUMPER | |
| | | | |
| RJ701 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ702 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ704 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ710 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ712 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ713 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ714 | ERJ6GEY0R00V | 0 1/10W | [M] |
| RJ721 | ERJ3GEY0R00V | 0 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| RJ722 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ723 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ724 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ725 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ726 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ727 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ728 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ729 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ730 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ731 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ732 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ733 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ734 | ERJ3GEY0R00V | 0 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| RJ735 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ736 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ737 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ738 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ739 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ740 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ741 | ERJ3GEY0R00V | 0 1/16W | [M] |
| RJ742 | ERJ3GEY0R00V | 0 1/16W | [M] |
| | | | |
| | | TTEST JUMPER | |
| | | | |
| TJ701 | EYF8CU | TEST JUMPER | [M] |

## 20.5. Packing Materials & Accessories Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | PACKING MATERIALS | |
| | | | |
| P1 | RPGX0763 | PACKING CASE | [M] P |
| P1 | RPGX0764 | PACKING CASE | [M] PC |
| P2 | RPNX0122 | POLYFOAM | [M] |
| P3 | RPFX0007 | MIRAMAT BAG | [M] |
| | | | |
| | | ACCESSORIES | |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| A1 | N2QAHB000014 | REMOTE CONTROLLER | [M] |
| A1-1 | RKK-HTR0216 | R/C BATTERY COVER | [M] |
| A2 | RJA0065-A | AC CORD | [M] ⚠ |
| A3 | RQT5769-P | O/I BOOK | [M] |
| A3 | RQT5770-M | O/I BOOK | [M] P |
| A3 | RQT5771-C | O/I BOOK | [M] PC |
| A4 | RSA0006-J | FM ANT | [M] |
| A5 | RSA0029 | AM LOOP ANT | [M] |

## 20.6. Packaging